

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
 Data File : VN058747.D
 Acq On : 14 Oct 2019 14:20
 Operator : JC/SP
 Sample : K5111-07 0.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:56:50 AM

Quant Time: Oct 15 03:46:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	392310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	637218	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	581459	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	243960	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	294211	53.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.14%	
35) Dibromofluoromethane	7.57	113	212650	54.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.06%	
50) Toluene-d8	10.09	98	775775	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
62) 4-Bromofluorobenzene	12.41	95	260855	43.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.56%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.84	85	2573	0.527	ug/l	89
3) Chloromethane	2.04	50	3767	0.648	ug/l	99
4) Vinyl Chloride	2.17	62	3384	0.585	ug/l	93
5) Bromomethane	2.55	94	2977	0.846	ug/l #	73
6) Chloroethane	2.69	64	2171	0.608	ug/l	92
7) Trichlorofluoromethane	3.00	101	4444	0.642	ug/l	94
8) Diethyl Ether	3.39	74	1169	0.457	ug/l	66
9) 1,1,2-Trichlorotrifluoroet	3.73	101	2492	0.631	ug/l #	38
10) Methyl Iodide	3.92	142	2549	0.473	ug/l #	93
11) Tert butyl alcohol	4.76	59	2988m	3.359	ug/l	
12) 1,1-Dichloroethene	3.71	96	2145m	0.569	ug/l	
13) Acrolein	3.59	56	1515	2.118	ug/l #	77
14) Allyl chloride	4.29	41	4045	0.532	ug/l #	59
15) Acrylonitrile	4.97	53	5818m	2.594	ug/l	
16) Acetone	3.80	43	7473	3.287	ug/l	95
17) Carbon Disulfide	4.04	76	7572	0.629	ug/l #	92
18) Methyl Acetate	4.31	43	4396m	0.762	ug/l	
19) Methyl tert-butyl Ether	5.03	73	7281m	0.541	ug/l	
20) Methylene Chloride	4.54	84	3501	0.737	ug/l	87
21) trans-1,2-Dichloroethene	5.02	96	2278	0.541	ug/l #	90
22) Diisopropyl ether	5.93	45	8049	0.544	ug/l #	63
23) Vinyl Acetate	5.88	43	30006	2.515	ug/l	98
24) 1,1-Dichloroethane	5.83	63	4299	0.511	ug/l #	85
25) 2-Butanone	6.82	43	8855	2.694	ug/l	93
26) 2,2-Dichloropropane	6.80	77	4791	0.623	ug/l #	72
27) cis-1,2-Dichloroethene	6.81	96	2694	0.548	ug/l	82
28) Bromochloromethane	7.18	49	1336m	0.456	ug/l	
29) Tetrahydrofuran	7.19	42	5896m	2.776	ug/l	
30) Chloroform	7.35	83	5812	0.687	ug/l	87
31) Cyclohexane	7.64	56	13034	1.618	ug/l #	23
32) 1,1,1-Trichloroethane	7.55	97	4177	0.579	ug/l #	49
36) 1,1-Dichloropropene	7.78	75	3469	0.538	ug/l	86
37) Ethyl Acetate	6.91	43	3388	0.520	ug/l #	80
38) Carbon Tetrachloride	7.76	117	3840	0.612	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	3937	0.527	ug/l	99
40) Benzene	8.03	78	11142	0.602	ug/l	95
41) Methacrylonitrile	7.17	41	1593m	0.522	ug/l	
42) 1,2-Dichloroethane	8.11	62	4795	0.675	ug/l	88
43) Isopropyl Acetate	8.15	43	5743	0.517	ug/l #	85
44) Trichloroethene	8.82	130	2597	0.565	ug/l	93
45) 1,2-Dichloropropane	9.11	63	2757	0.557	ug/l	90
46) Dibromomethane	9.20	93	1808	0.576	ug/l	96
47) Bromodichloromethane	9.40	83	3454	0.540	ug/l #	70
48) Methyl methacrylate	9.20	41	2902	0.577	ug/l	93
49) 1,4-Dioxane	9.20	88	942	12.102	ug/l #	89
51) 4-Methyl-2-Pentanone	9.98	43	15510	2.488	ug/l	99
52) Toluene	10.15	92	6386	0.564	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	3606	0.492	ug/l #	63
54) cis-1,3-Dichloropropene	9.83	75	3999	0.514	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	2915	0.629	ug/l	90
56) Ethyl methacrylate	10.43	69	2923	0.432	ug/l #	73
57) 1,3-Dichloropropane	10.71	76	4689	0.594	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	6550	2.008	ug/l	98
59) 2-Hexanone	10.75	43	12184	2.529	ug/l	94
60) Dibromochloromethane	10.90	129	2365	0.495	ug/l	95
61) 1,2-Dibromoethane	11.00	107	2468	0.532	ug/l	100
64) Tetrachloroethene	10.63	164	2687	0.660	ug/l	96
65) Chlorobenzene	11.43	112	6512	0.551	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.51	131	2328	0.533	ug/l #	57
67) Ethyl Benzene	11.51	91	10648	0.506	ug/l	98
68) m/p-Xylenes	11.62	106	7350	0.930	ug/l	95
69) o-Xylene	11.95	106	3663	0.479	ug/l	95
70) Styrene	11.97	104	5554	0.443	ug/l	94
71) Bromoform	12.13	173	1331	0.416	ug/l #	96
73) Isopropylbenzene	12.25	105	9800	0.555	ug/l	97
74) N-amyl acetate	12.07	43	3513	0.443	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	3277	0.563	ug/l	81
76) 1,2,3-Trichloropropane	12.56	75	4319m	0.807	ug/l	
77) Bromobenzene	12.53	156	2738	0.637	ug/l	88
78) n-propylbenzene	12.59	91	12553	0.610	ug/l	95
79) 2-Chlorotoluene	12.68	91	7356	0.576	ug/l	98
80) 1,3,5-Trimethylbenzene	12.74	105	7590	0.503	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.31	75	1503m	0.752	ug/l	
82) 4-Chlorotoluene	12.78	91	6800	0.519	ug/l	100
83) tert-Butylbenzene	13.00	119	6913	0.535	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	7667	0.512	ug/l	94
85) sec-Butylbenzene	13.18	105	8767	0.515	ug/l	100
86) p-Isopropyltoluene	13.30	119	6971	0.450	ug/l	95
87) 1,3-Dichlorobenzene	13.29	146	4367	0.551	ug/l	96
88) 1,4-Dichlorobenzene	13.37	146	4895m	0.607	ug/l	
89) n-Butylbenzene	13.62	91	6602	0.461	ug/l	98
90) Hexachloroethane	13.88	117	1596	0.576	ug/l	92
91) 1,2-Dichlorobenzene	13.66	146	4254	0.551	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.27	75	1095	0.805	ug/l	61

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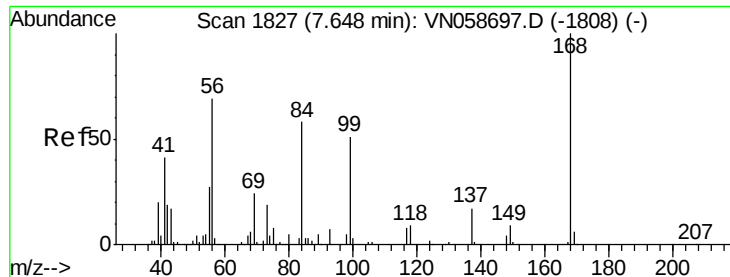
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	2119	0.450	ug/l	89
94) Hexachlorobutadiene	15.02	225	1252	0.505	ug/l	89
95) Naphthalene	15.13	128	5666	0.418	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.30	180	2075	0.451	ug/l	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

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Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:168 Resp: 392310

Ion Ratio Lower Upper

168 100

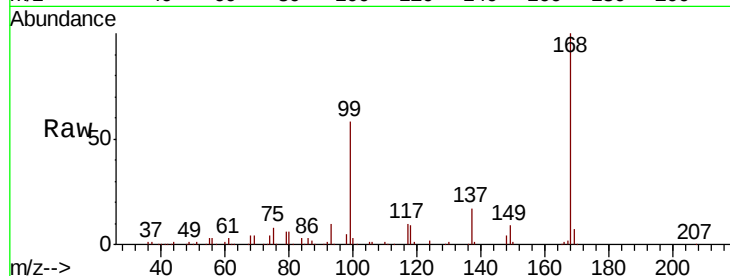
99 58.2 47.5 71.3

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

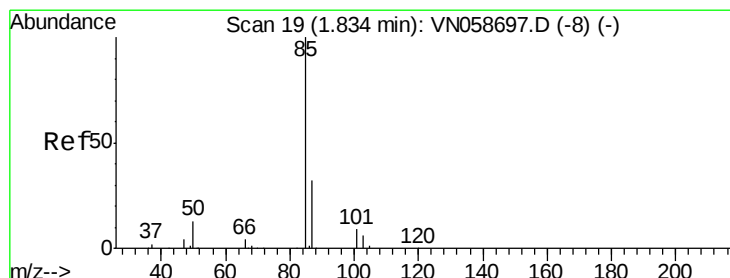
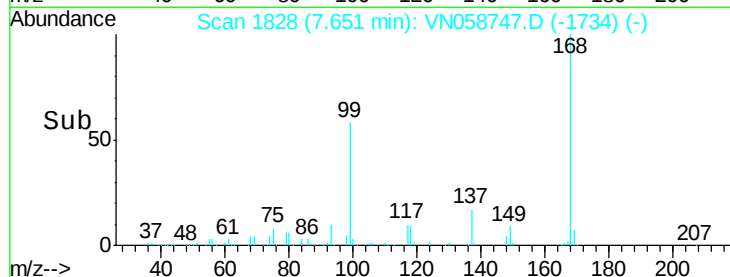
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.527 ug/l

RT: 1.84 min Scan# 20

Delta R.T. 0.00 min

Lab File: VN058747.D

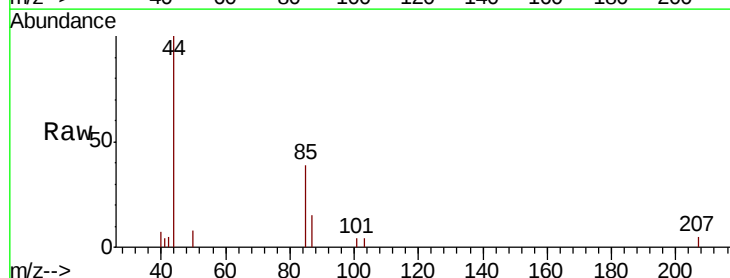
Acq: 14 Oct 2019 14:20

Tgt Ion: 85 Resp: 2573

Ion Ratio Lower Upper

85 100

87 38.4 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.84

2000

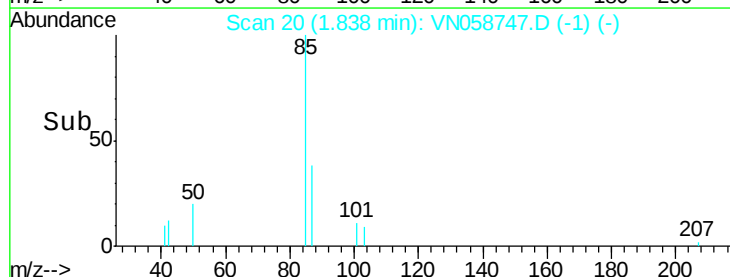
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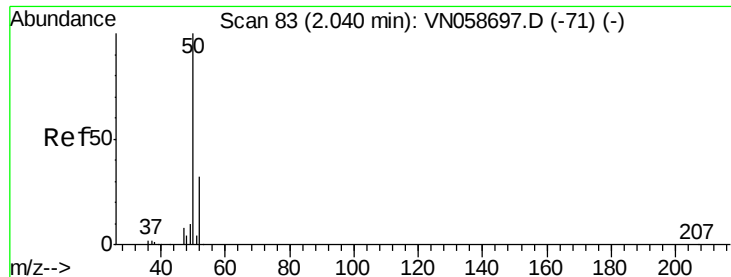
1000

500

0

Time-->





#3

Chloromethane

Concen: 0.648 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 50 Resp: 3767

Ion Ratio Lower Upper

50 100

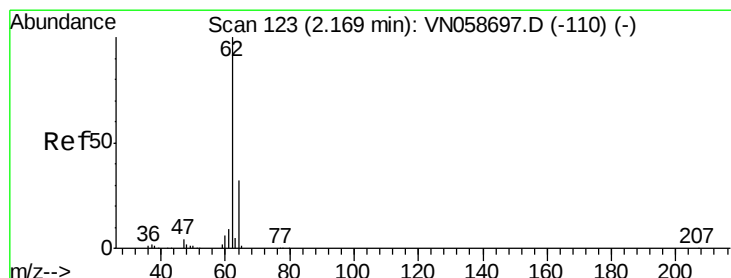
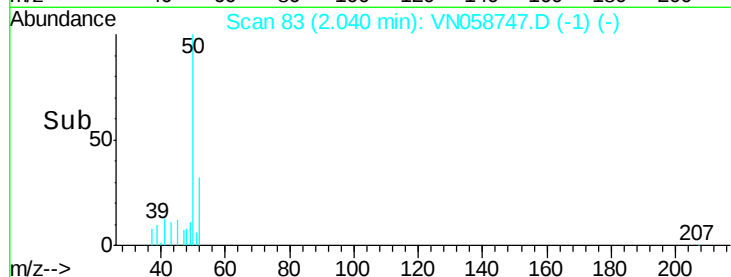
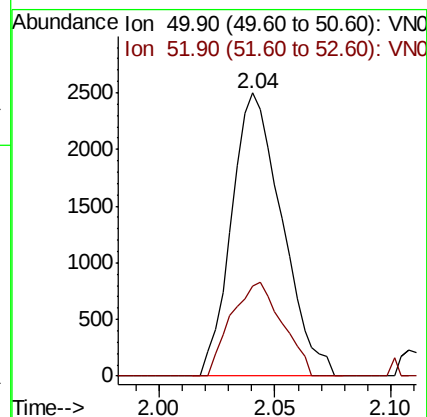
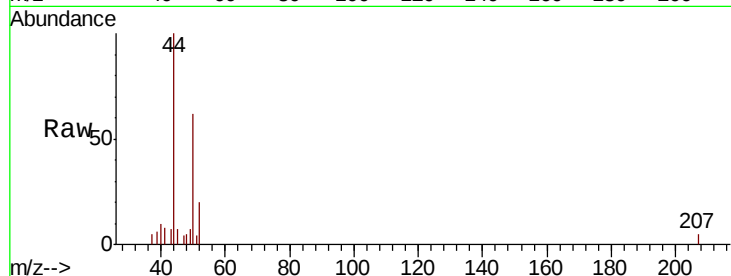
52 31.6 25.8 38.6

Manual Integrations

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10/16/2019 12:56:50 AM



#4

Vinyl Chloride

Concen: 0.585 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058747.D

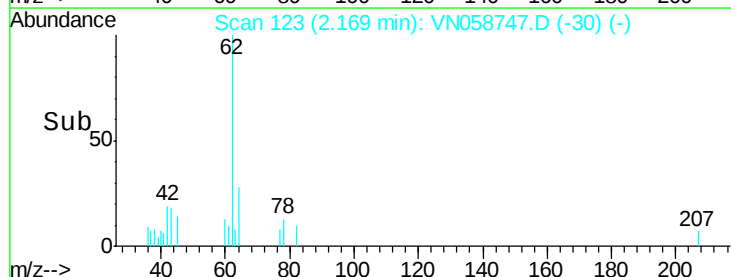
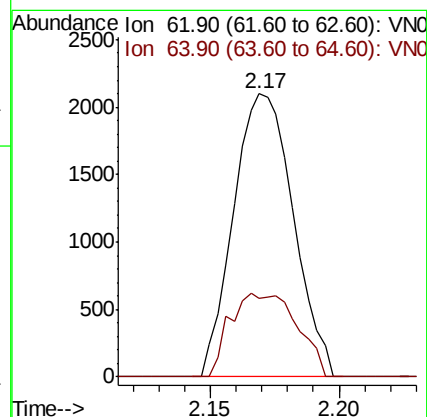
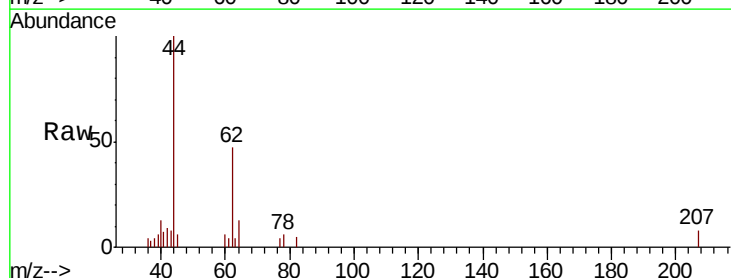
Acq: 14 Oct 2019 14:20

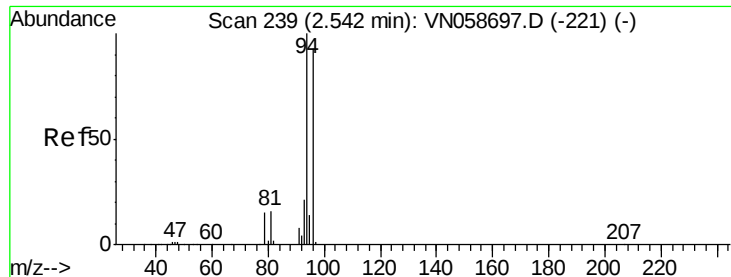
Tgt Ion: 62 Resp: 3384

Ion Ratio Lower Upper

62 100

64 27.9 25.3 37.9





#5

Bromomethane

Concen: 0.846 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

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Tot Ion: 94 Resp: 2977

Ion Ratio Lower Upper

94 100

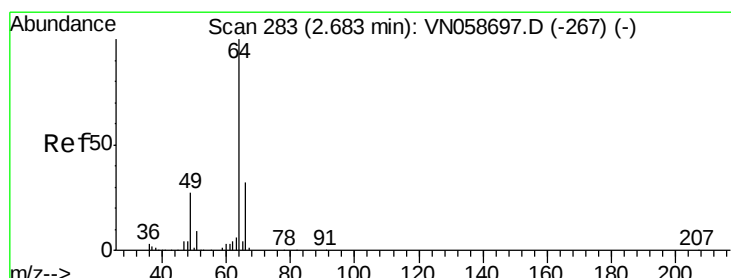
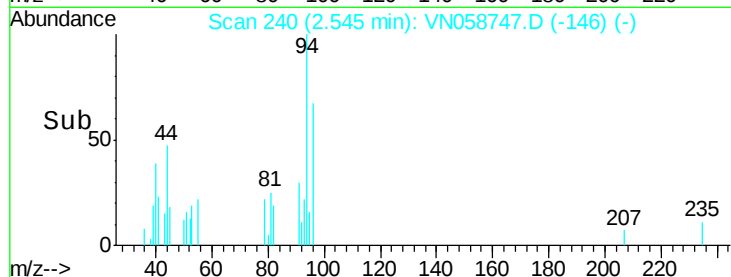
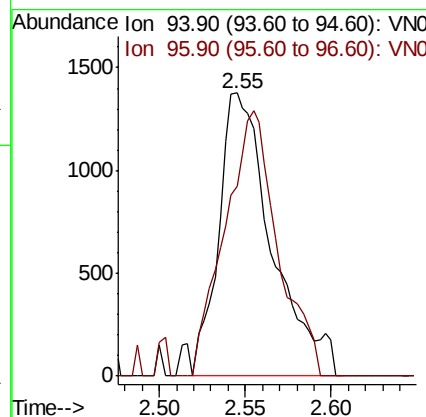
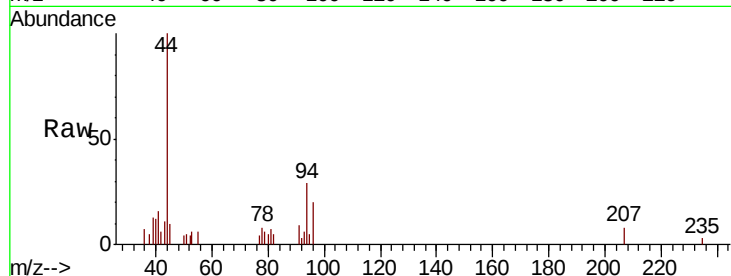
96 67.1 74.5 111.7#

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#6

Chloroethane

Concen: 0.608 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN058747.D

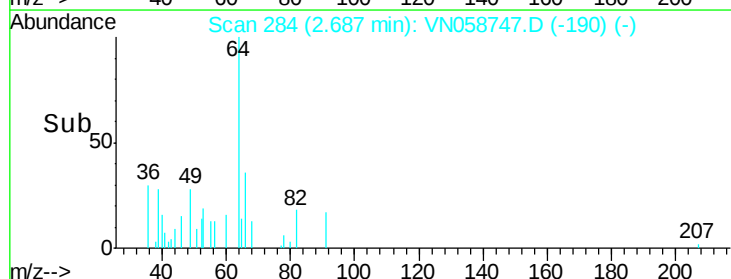
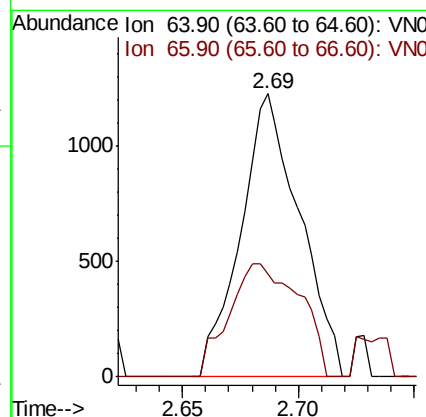
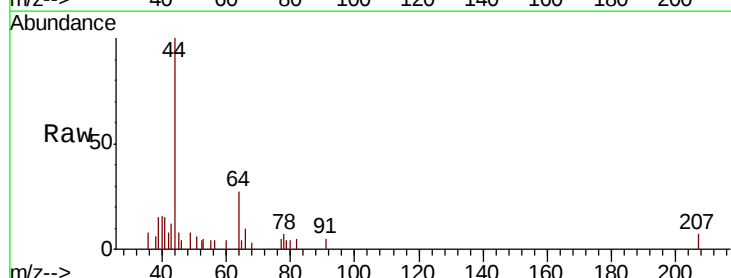
Acq: 14 Oct 2019 14:20

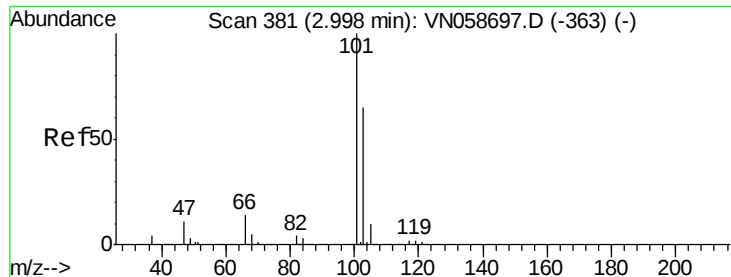
Tgt Ion: 64 Resp: 2171

Ion Ratio Lower Upper

64 100

66 36.4 25.4 38.2





#7

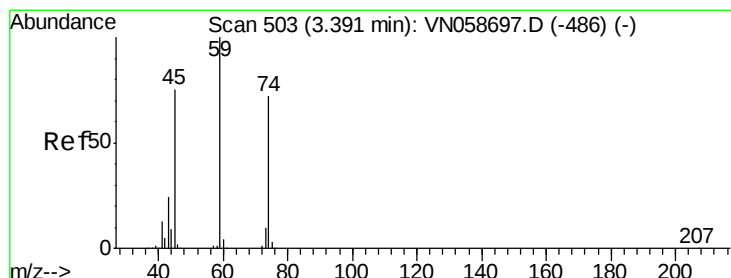
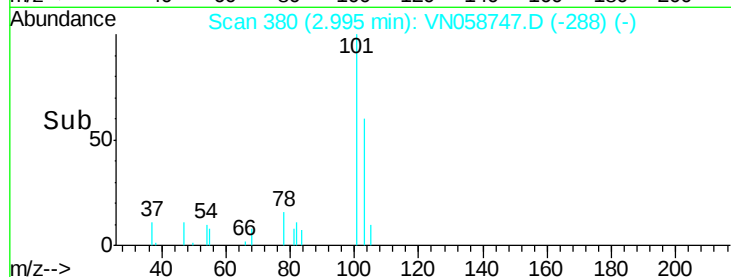
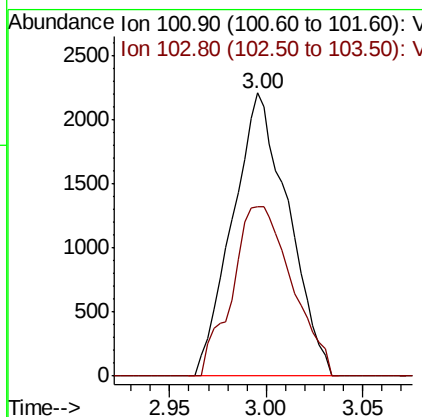
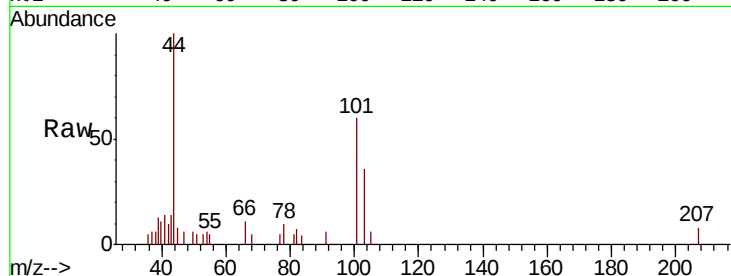
Trichlorofluoromethane
Concen: 0.642 ug/l
RT: 3.00 min Scan# 380
Delta R.T. -0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

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Tot Ion	Ratio	Lower	Upper
101	100		
103	60.1	51.8	77.6

Manual Integrations
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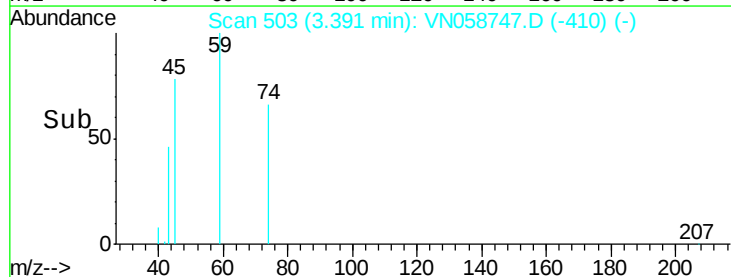
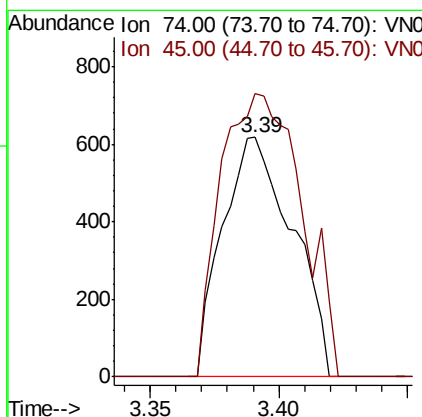
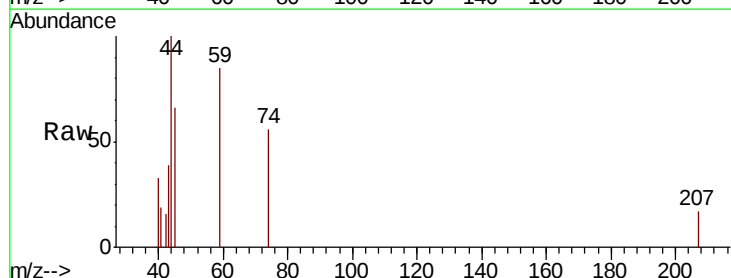
MMDadoda
10/16/2019 12:56:50 AM

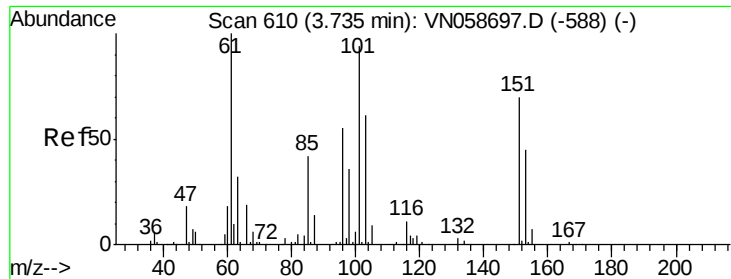


#8

Diethyl Ether
Concen: 0.457 ug/l
RT: 3.39 min Scan# 503
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
74	100		
45	137.0	51.3	154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.631 ug/l

RT: 3.73 min Scan# 608

Delta R.T. -0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

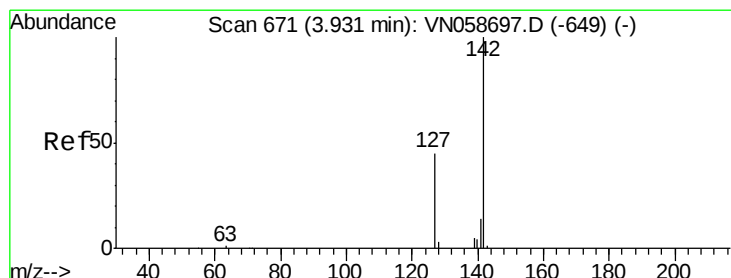
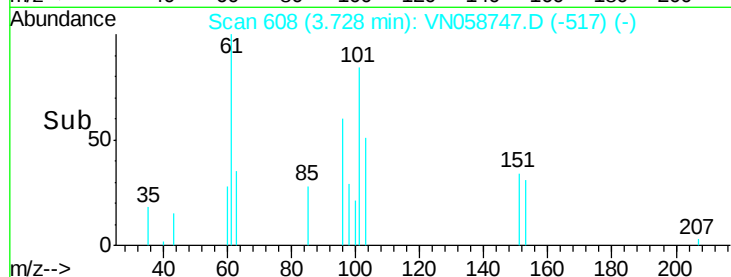
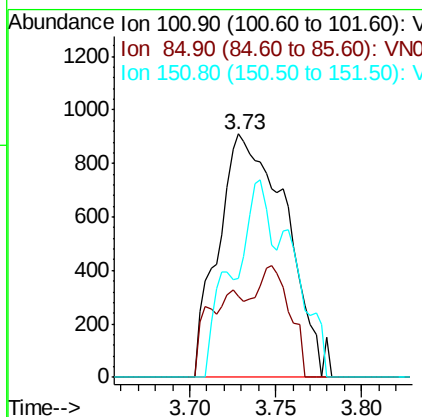
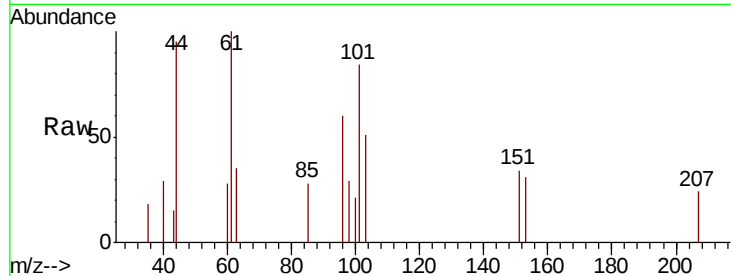
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	101	Resp:	2492
Ion Ratio	Lower	Upper	
101	100		
85	18.9	37.0	55.6#
151	13.1	61.8	92.6#

Manual Integrations
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#10

Methyl Iodide

Concen: 0.473 ug/l

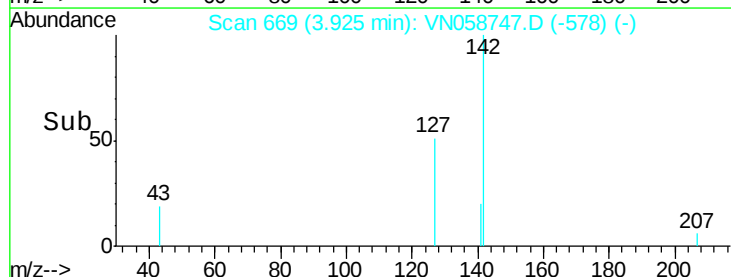
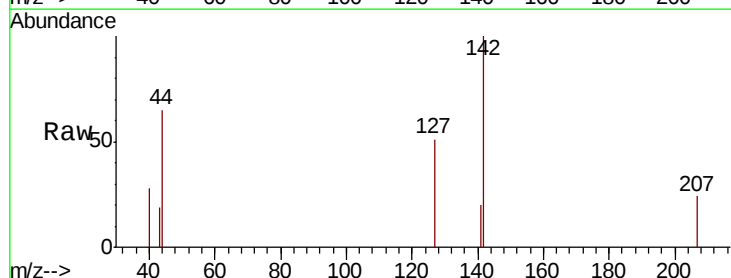
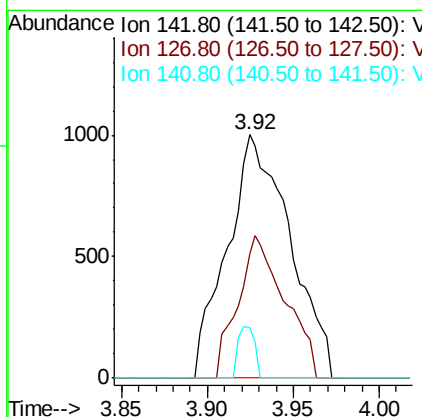
RT: 3.92 min Scan# 669

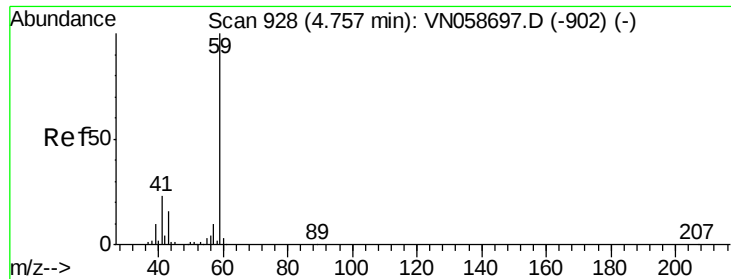
Delta R.T. -0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Tgt Ion:	142	Resp:	2549
Ion Ratio	Lower	Upper	
142	100		
127	43.5	36.4	54.6
141	5.6	11.1	16.7#





#11

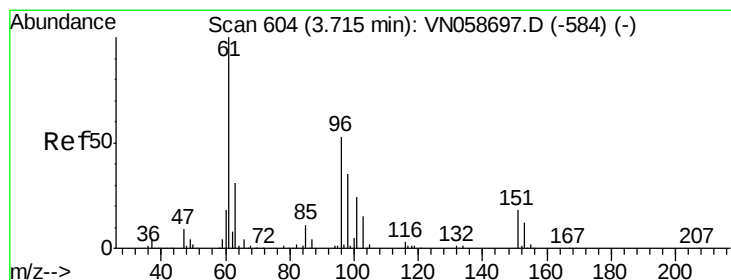
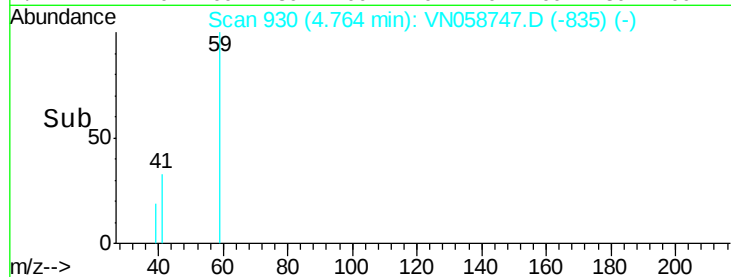
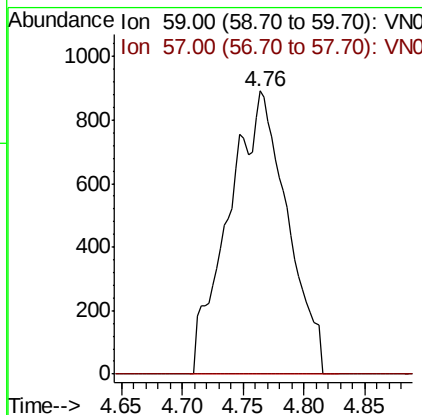
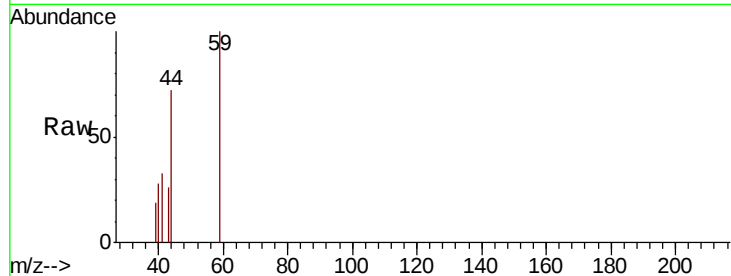
Tert butyl alcohol
 Concen: 3.359 ug/l m
 RT: 4.76 min Scan# 930
 Delta R.T. 0.01 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion: 59 Resp: 2988
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

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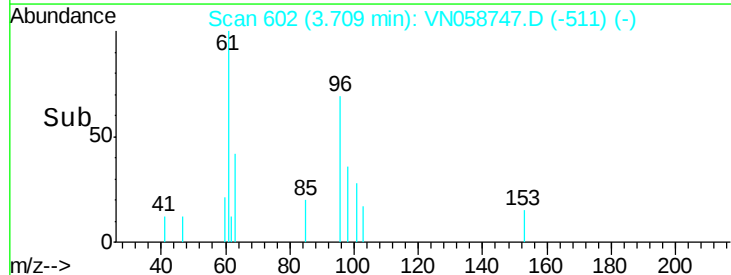
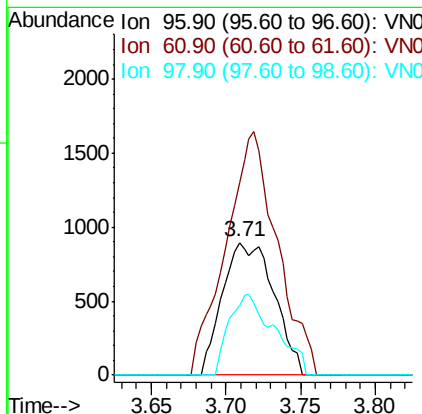
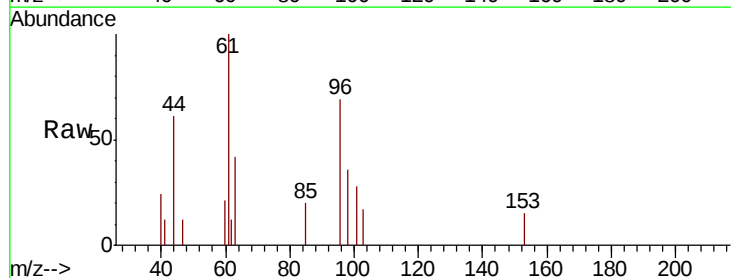
MMDadoda
 10/16/2019 12:56:50 AM

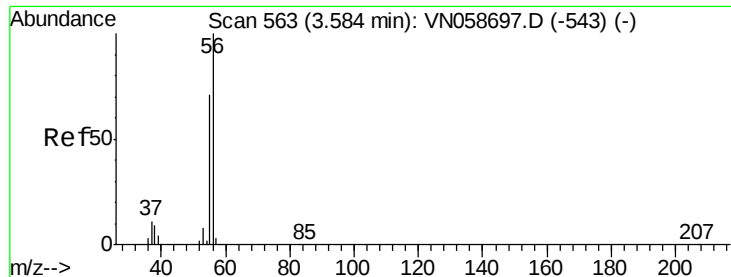


#12

1,1-Dichloroethene
 Concen: 0.569 ug/l m
 RT: 3.71 min Scan# 602
 Delta R.T. -0.01 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion: 96 Resp: 2145
 Ion Ratio Lower Upper
 96 100
 61 145.6 151.3 226.9#
 98 53.0 52.6 78.8





#13

Acrolein

Concen: 2.118 ug/l

RT: 3.59 min Scan# 566

Delta R.T. 0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 56 Resp: 1515

Ion Ratio Lower Upper

56 100

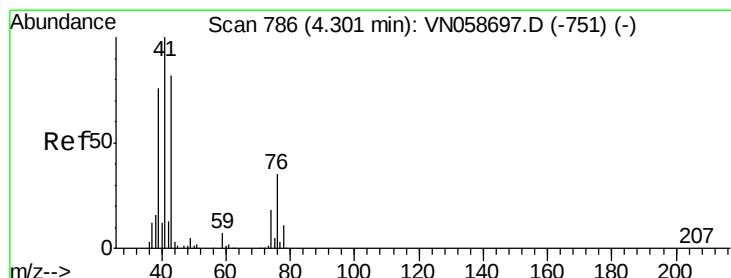
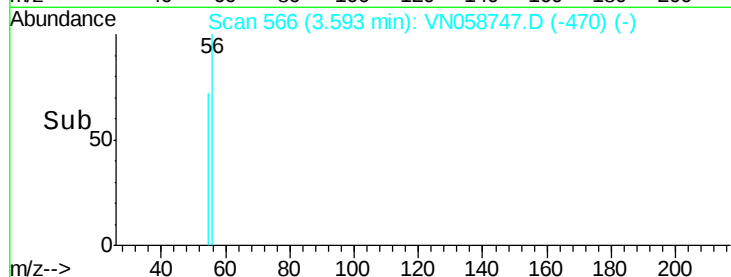
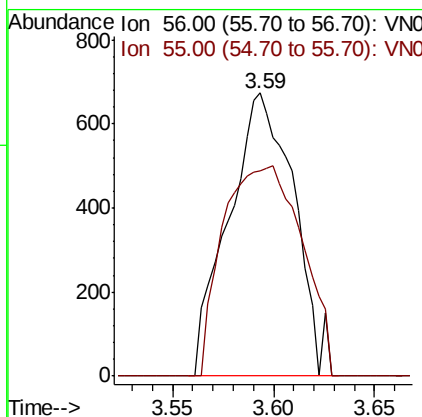
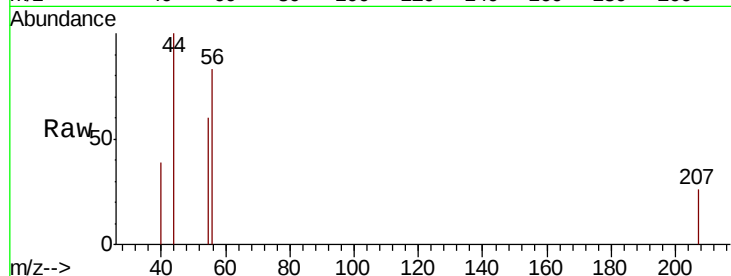
55 89.9 56.7 85.1#

Manual Integrations

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MMDadoda

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#14

Allyl chloride

Concen: 0.532 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

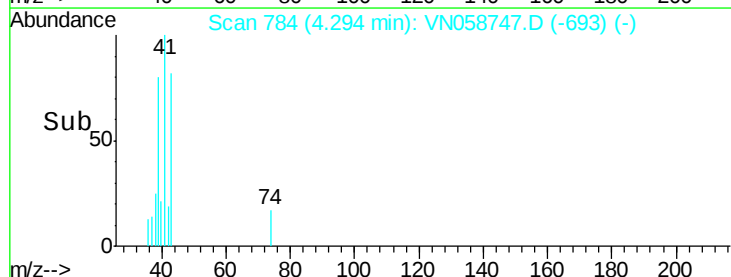
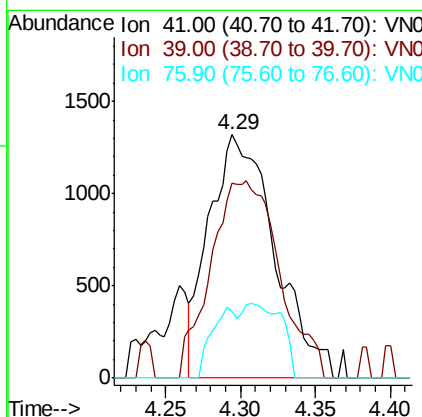
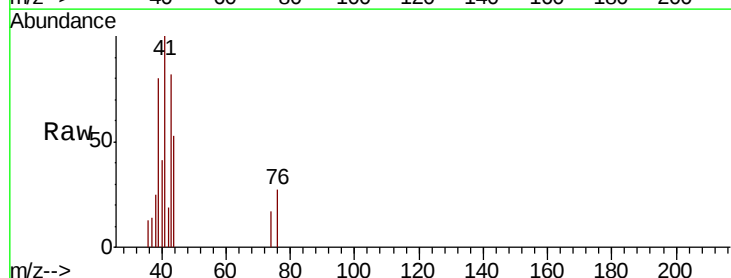
Tgt Ion: 41 Resp: 4045

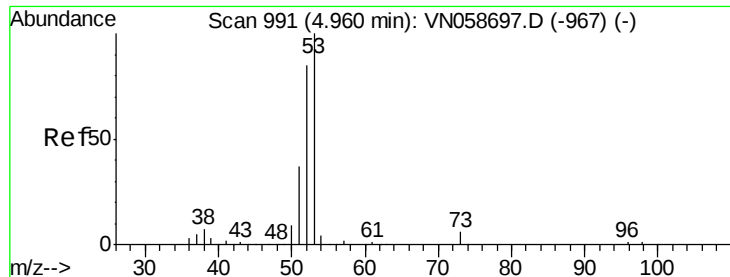
Ion Ratio Lower Upper

41 100

39 35.4 57.2 85.8#

76 11.2 25.0 37.6#





#15

Acrylonitrile

Concen: 2.594 ug/l m

RT: 4.97 min Scan# 995

Delta R.T. 0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

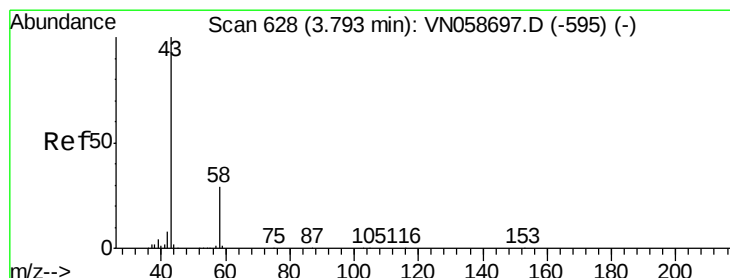
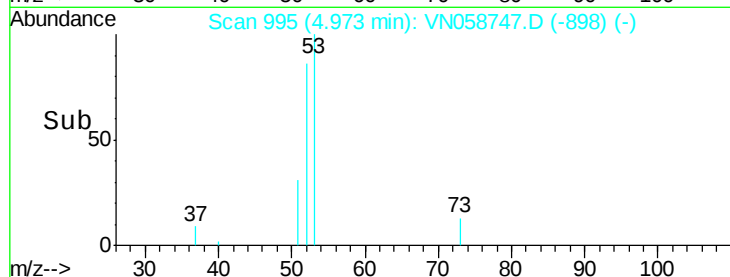
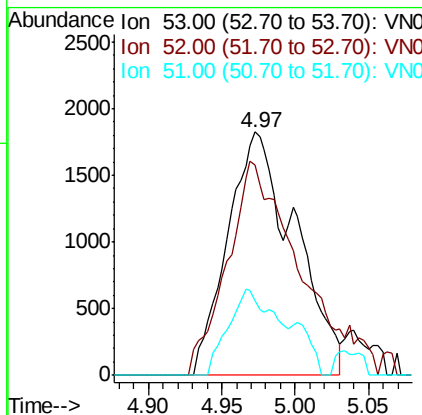
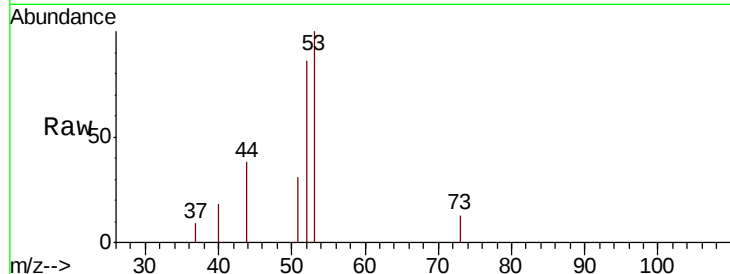
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	53	Resp:	5818
Ion	Ratio	Lower	Upper
53	100		
52	94.9	66.2	99.2
51	24.5	29.4	44.2#

Manual Integrations
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#16

Acetone

Concen: 3.287 ug/l

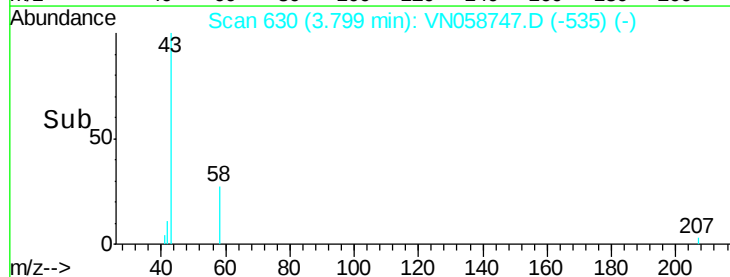
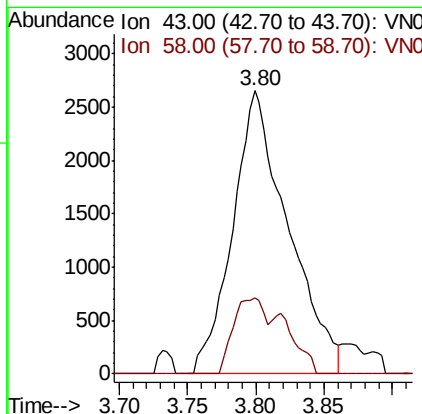
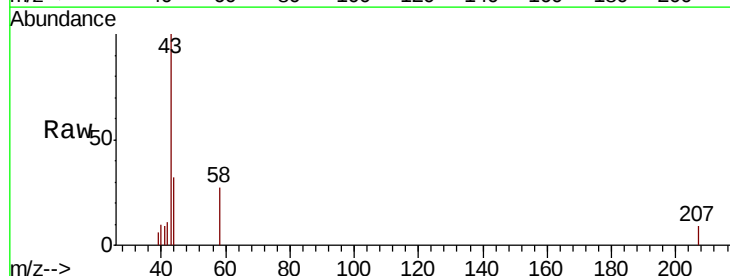
RT: 3.80 min Scan# 630

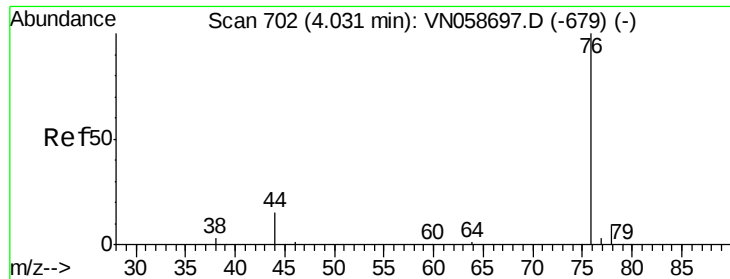
Delta R.T. 0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Tgt Ion:	43	Resp:	7473
Ion	Ratio	Lower	Upper
43	100		
58	26.7	23.3	34.9





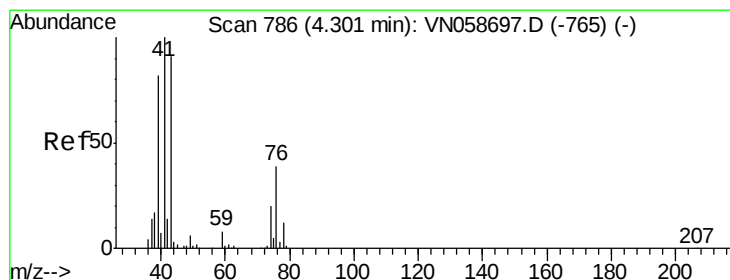
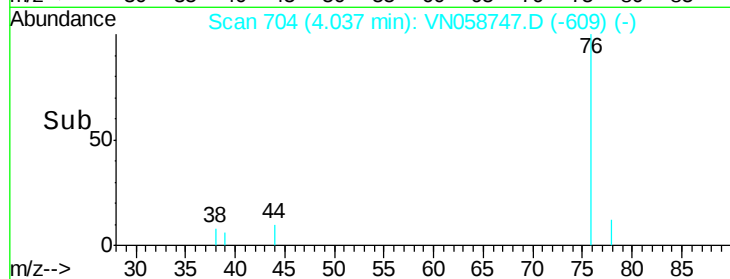
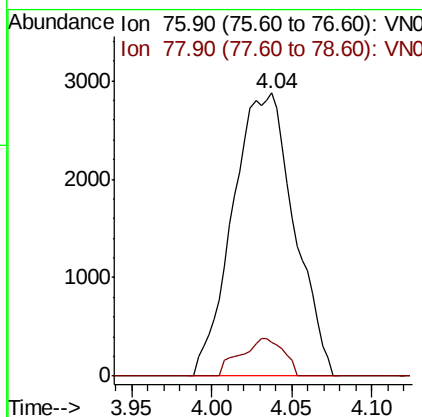
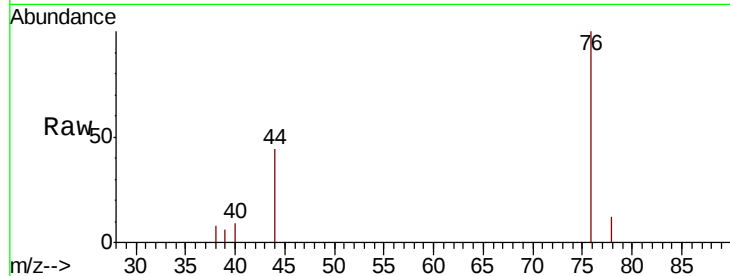
#17
Carbon Disulfide
Concen: 0.629 ug/l
RT: 4.04 min Scan# 704
Delta R.T. 0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 76 Resp: 7572
Ion Ratio Lower Upper
76 100
78 11.8 7.1 10.7#

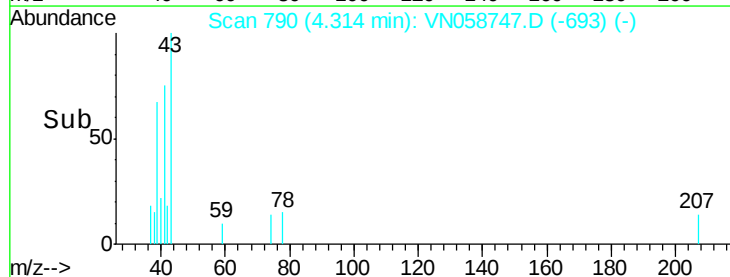
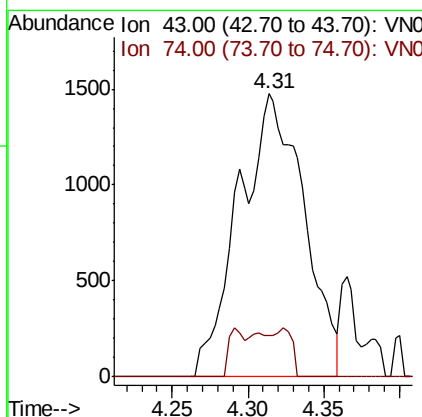
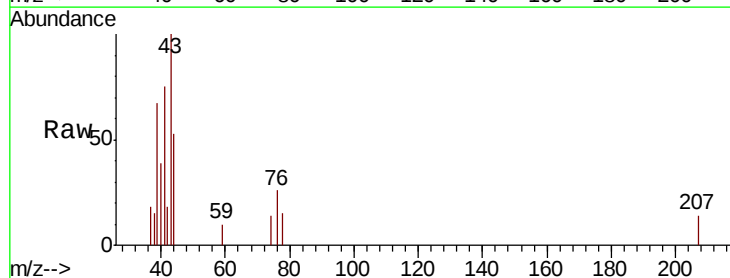
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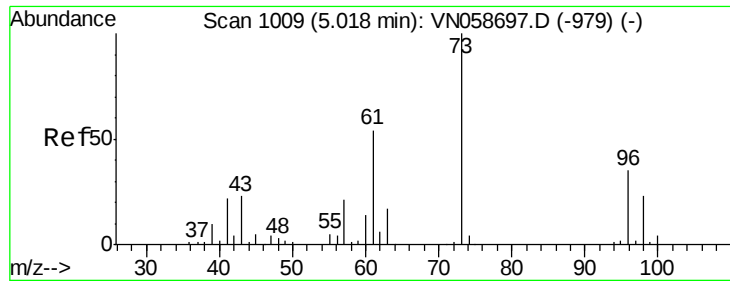
MMDadoda
10/16/2019 12:56:50 AM



#18
Methyl Acetate
Concen: 0.762 ug/l m
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion: 43 Resp: 4396
Ion Ratio Lower Upper
43 100
74 3.9 17.2 25.8#





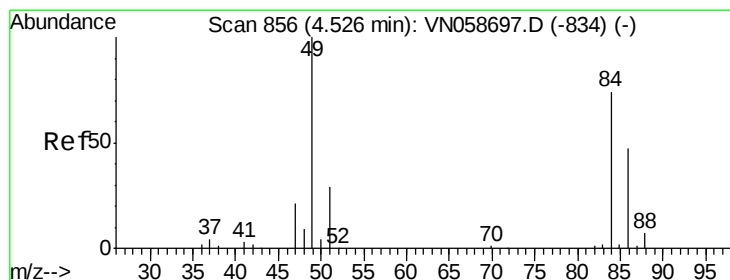
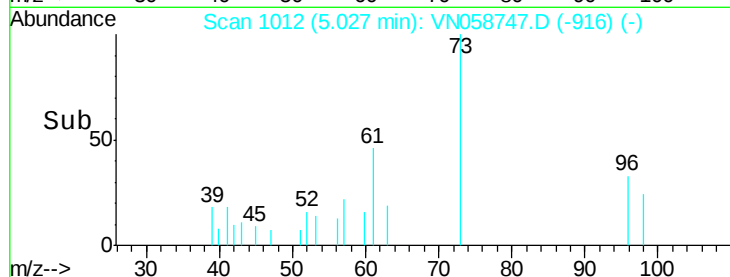
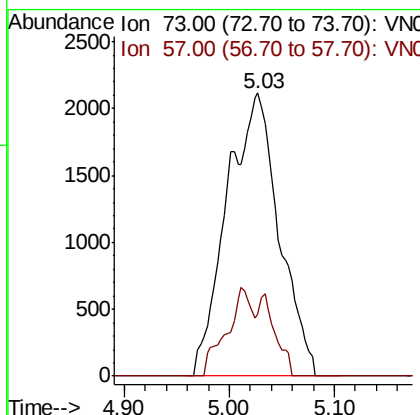
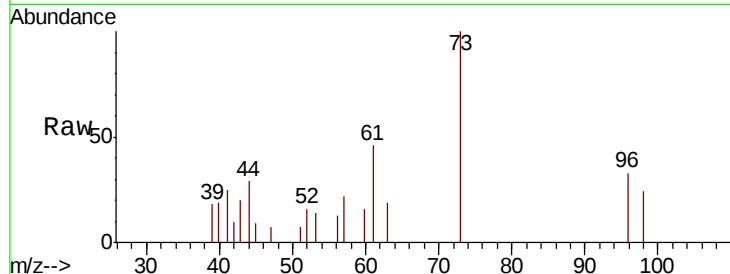
#19
Methyl tert-butyl Ether
Concen: 0.541 ug/l m
RT: 5.03 min Scan# 1012
Delta R.T. 0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 73 Resp: 7281
Ion Ratio Lower Upper
73 100
57 22.0 17.0 25.6

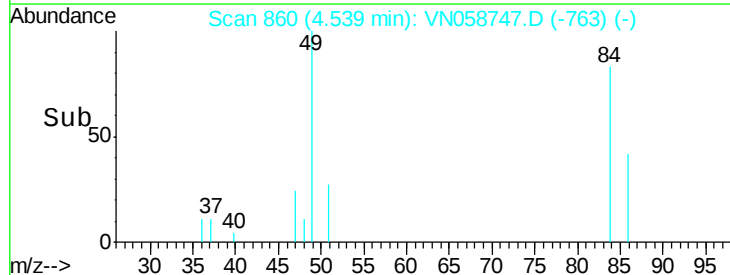
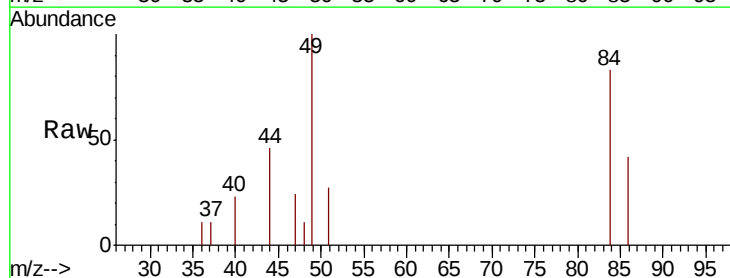
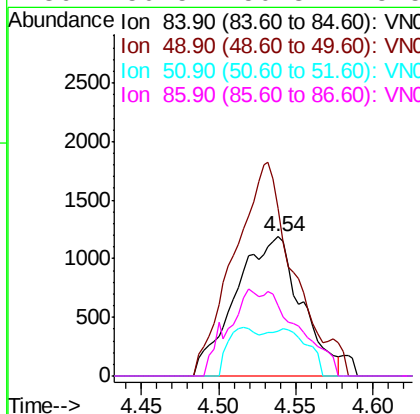
Manual Integrations
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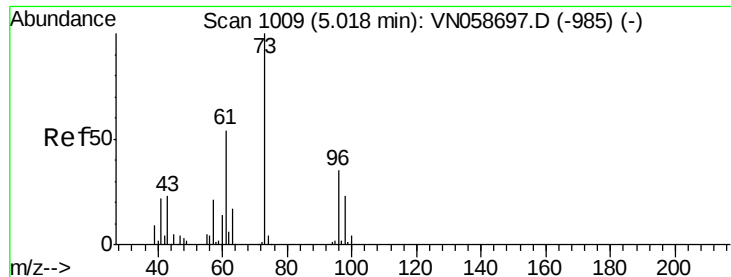
MMDadoda
10/16/2019 12:56:50 AM



#20
Methylene Chloride
Concen: 0.737 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion: 84 Resp: 3501
Ion Ratio Lower Upper
84 100
49 120.4 107.6 161.4
51 32.4 31.4 47.0
86 50.5 50.3 75.5





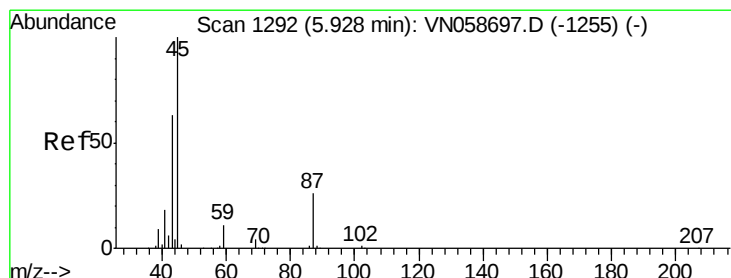
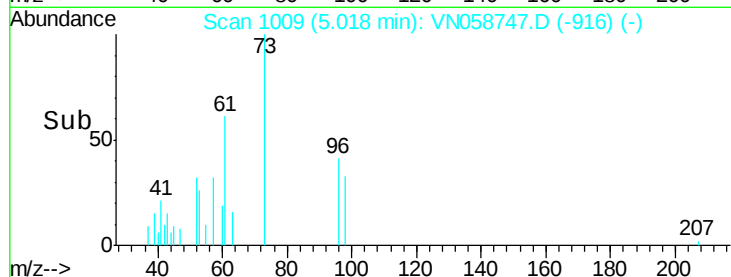
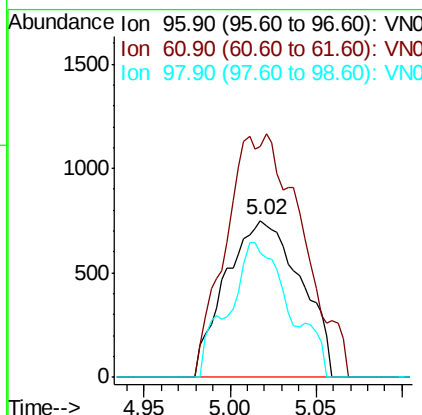
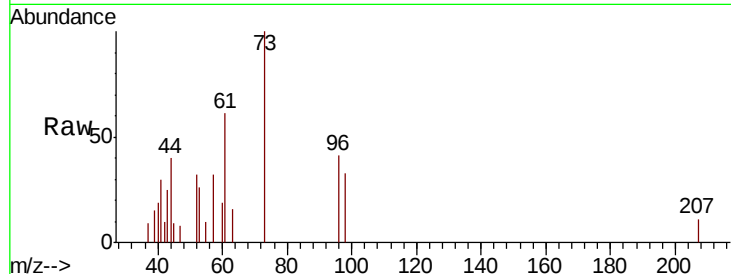
#21
trans-1,2-Dichloroethene
Concen: 0.541 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.9	123.6	185.4
98	79.5	52.1	78.1#

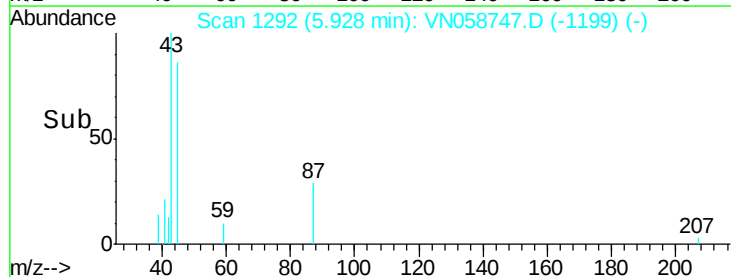
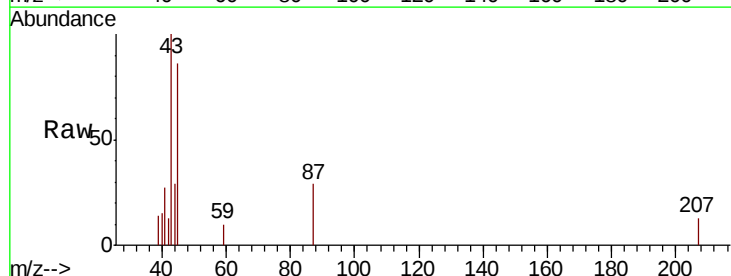
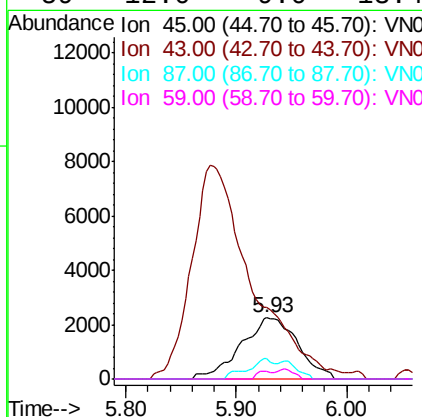
Manual Integrations
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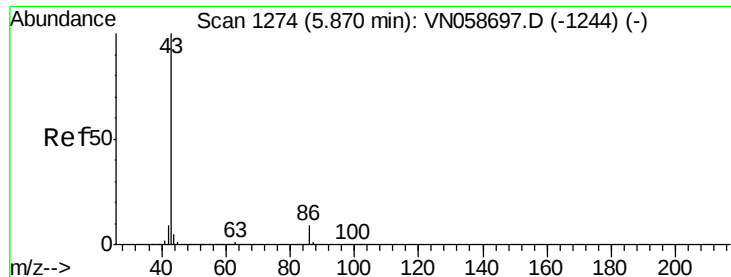
MMDadoda
10/16/2019 12:56:50 AM



#22
Diisopropyl ether
Concen: 0.544 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
45	100		
43	104.3	50.6	75.8#
87	33.4	21.1	31.7#
59	12.0	9.0	13.4





#23

Vinyl Acetate

Concen: 2.515 ug/l

RT: 5.88 min Scan# 1276

Delta R.T. 0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 30006

Ion Ratio Lower Upper

43 100

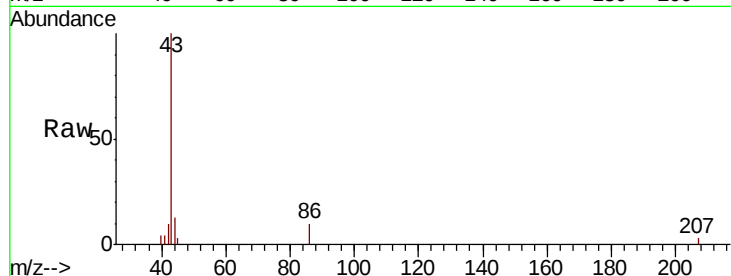
86 9.8 7.4 11.0

Manual Integrations

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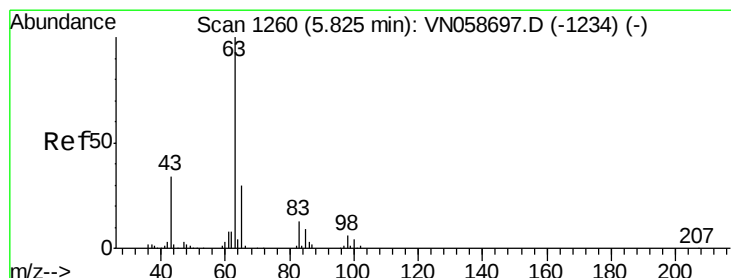
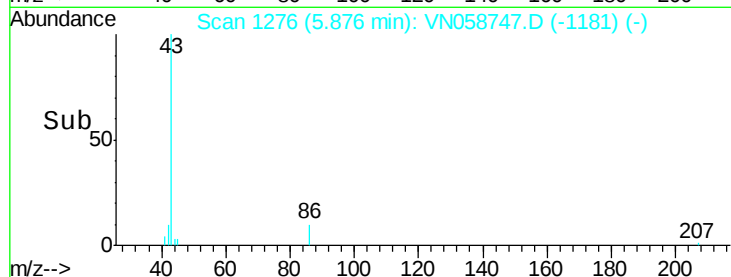
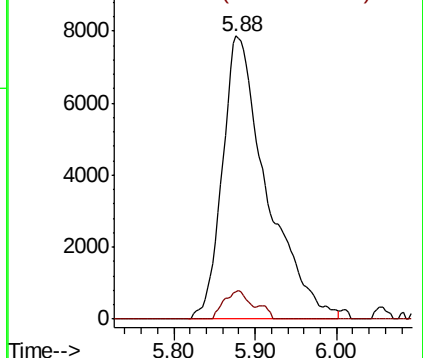
MMDadoda

10/16/2019 12:56:50 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 0.511 ug/l

RT: 5.83 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

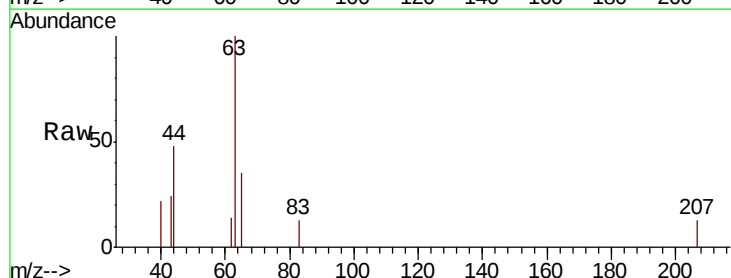
Tgt Ion: 63 Resp: 4299

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.6#

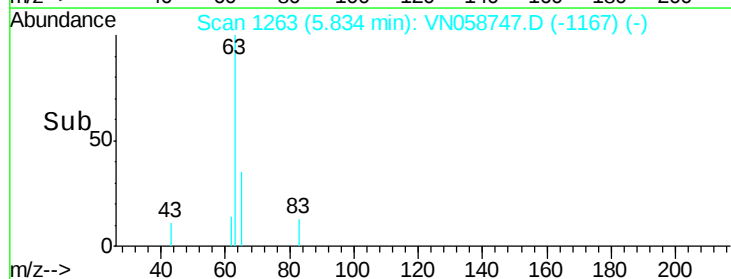
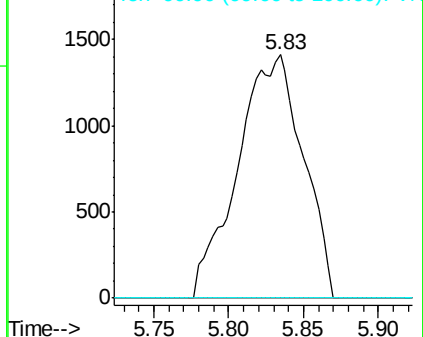
100 0.0 1.8 5.5#

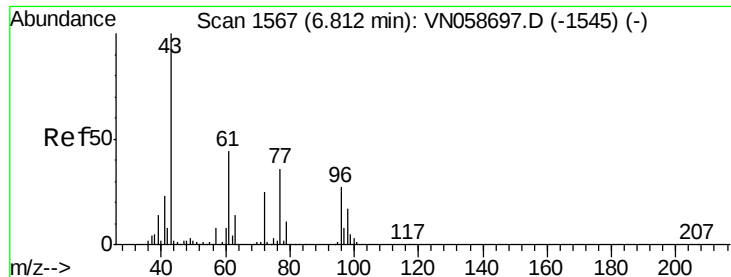


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





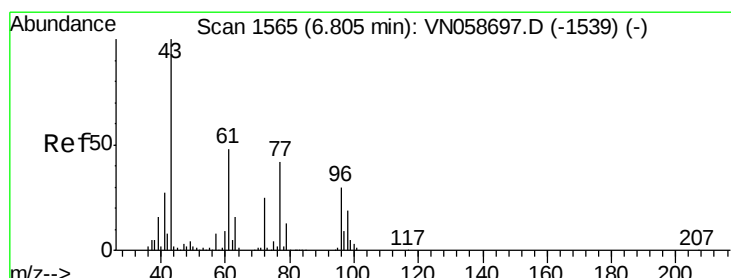
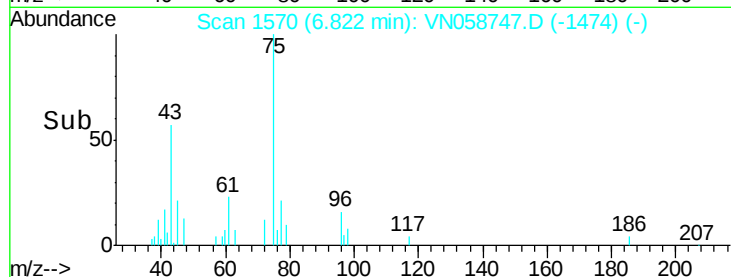
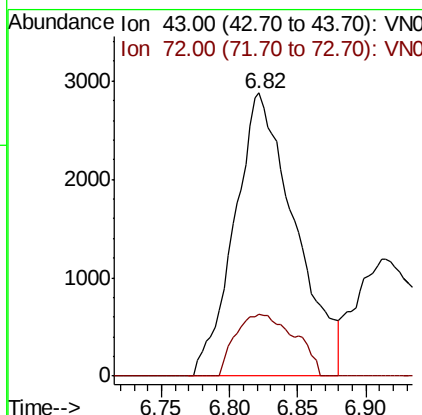
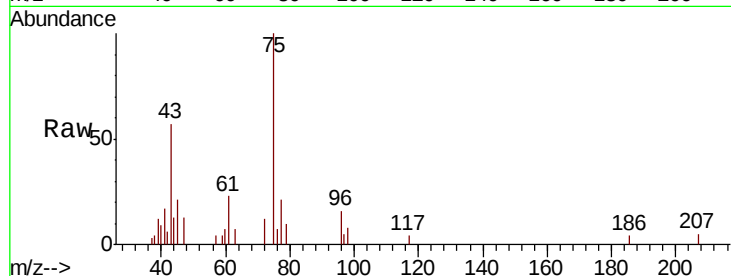
#25
2-Butanone
Concen: 2.694 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 8855
Ion Ratio Lower Upper
43 100
72 21.7 20.2 30.2

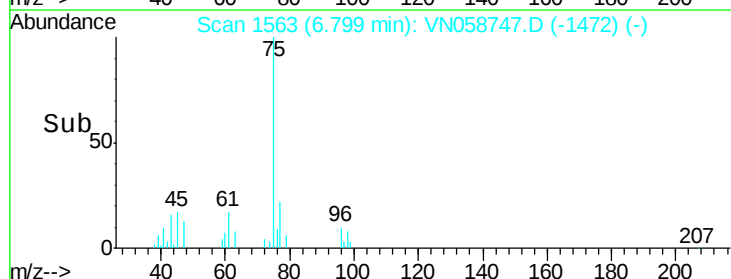
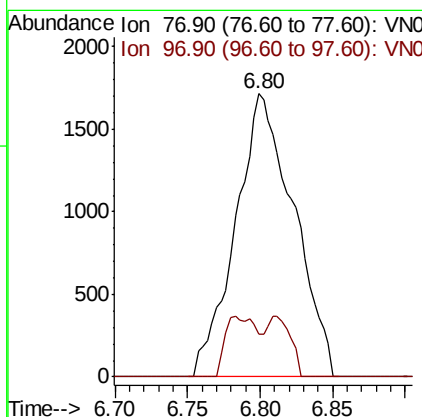
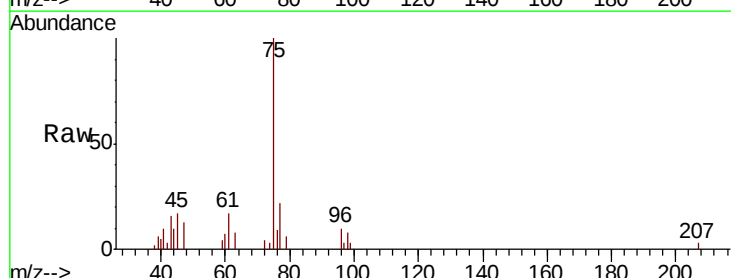
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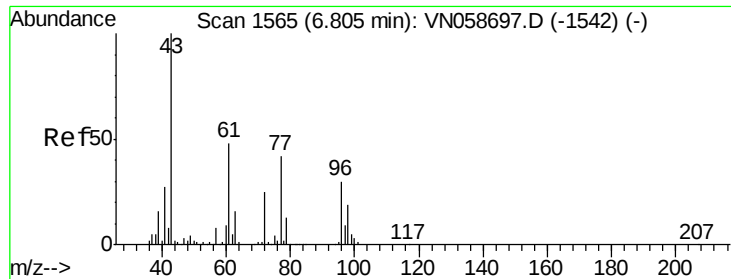
MMDadoda
10/16/2019 12:56:50 AM



#26
2,2-Dichloropropane
Concen: 0.623 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion: 77 Resp: 4791
Ion Ratio Lower Upper
77 100
97 8.3 10.7 31.9#





#27

cis-1,2-Dichloroethene

Concen: 0.548 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

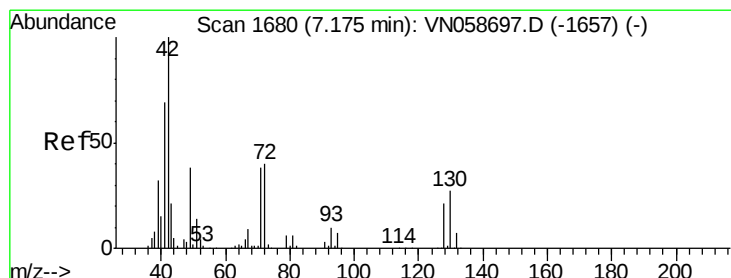
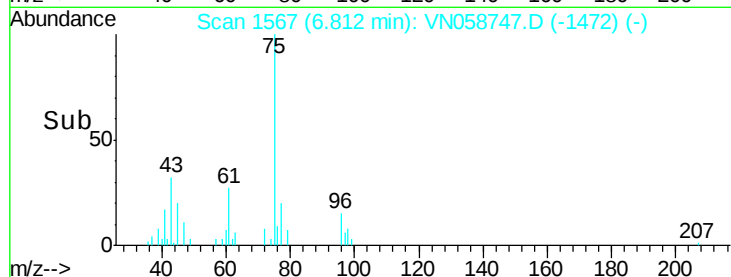
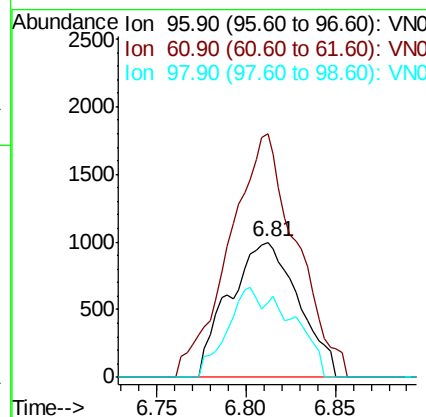
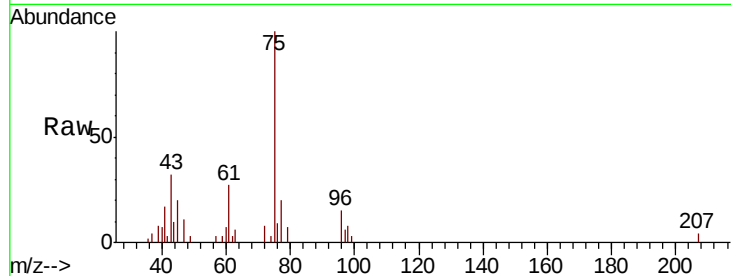
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	96	Resp:	2694
Ion	Ratio	Lower	Upper
96	100		
61	175.1	0.0	324.8
98	32.3	0.0	129.2

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#28

Bromochloromethane

Concen: 0.456 ug/l m

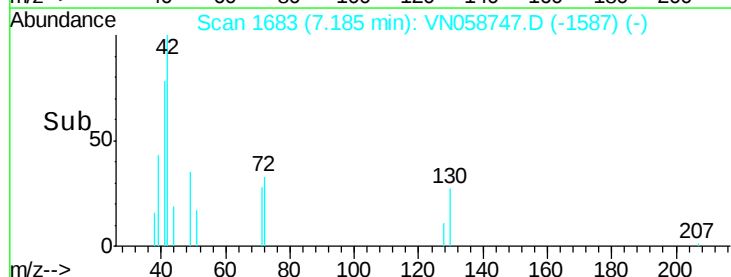
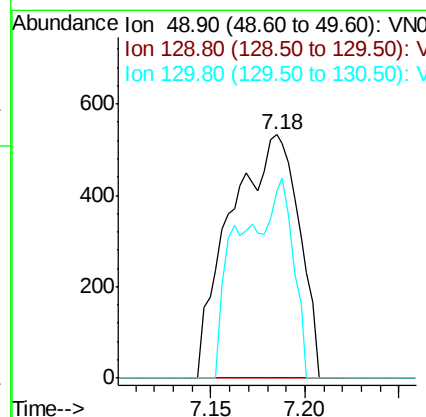
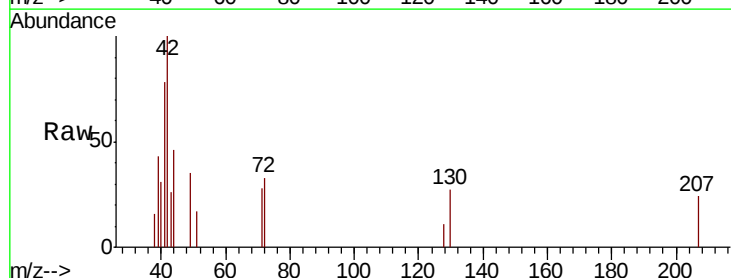
RT: 7.18 min Scan# 1683

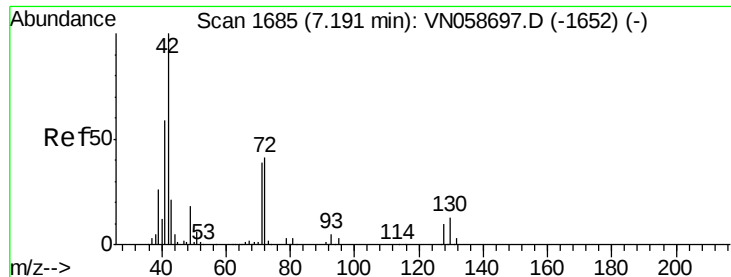
Delta R.T. 0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Tgt Ion:	49	Resp:	1336
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	28.1	55.0	82.4#





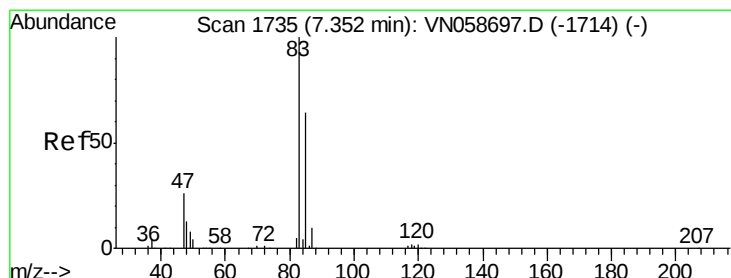
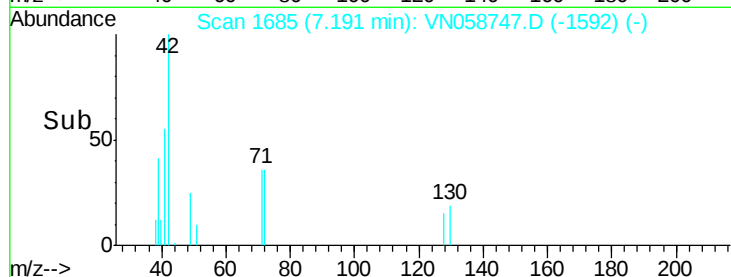
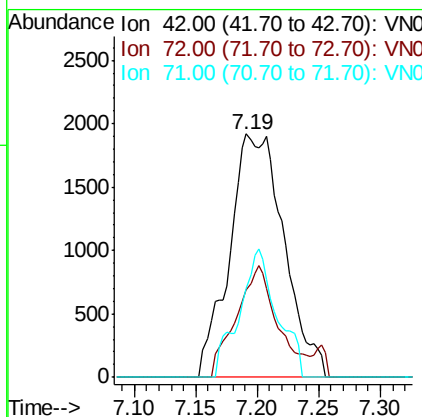
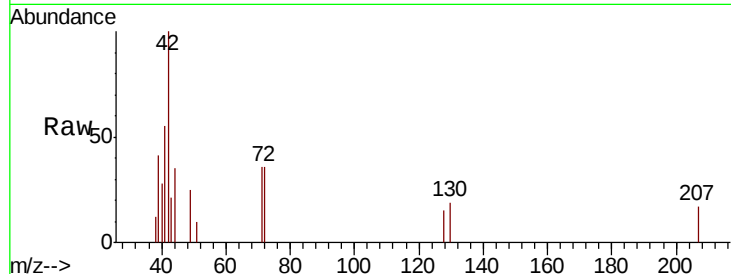
#29
Tetrahydrofuran
Concen: 2.776 ug/l m
RT: 7.19 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.5	32.8	49.2
71	36.4	31.1	46.7

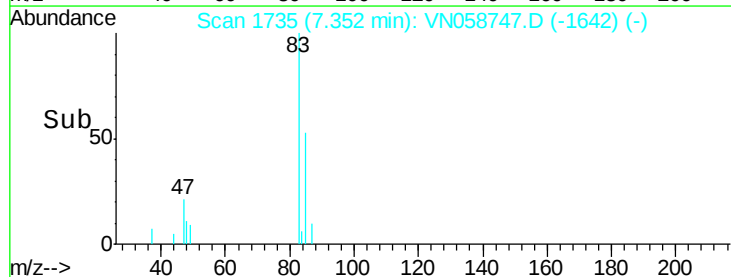
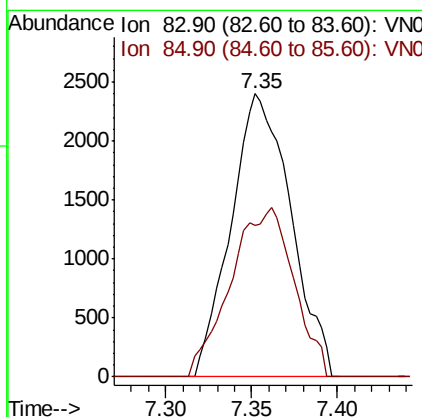
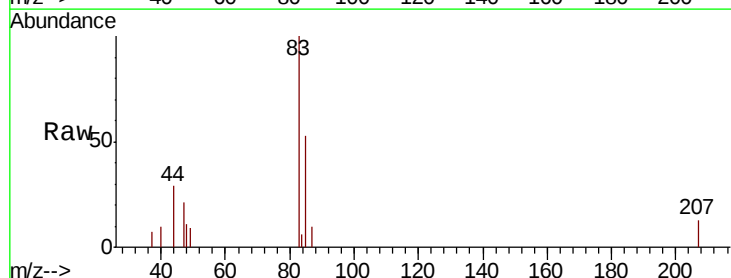
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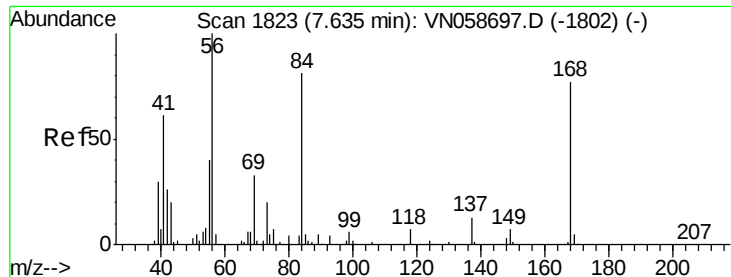
MMDadoda
10/16/2019 12:56:50 AM



#30
Chloroform
Concen: 0.687 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	53.4	51.0	76.6





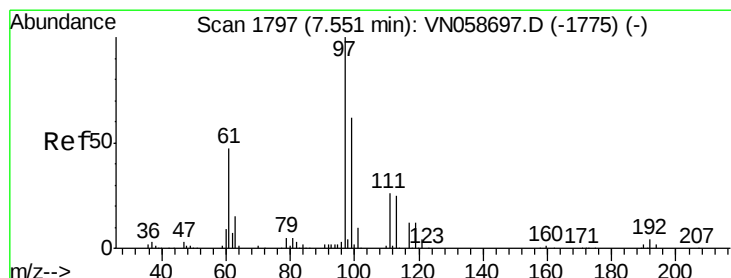
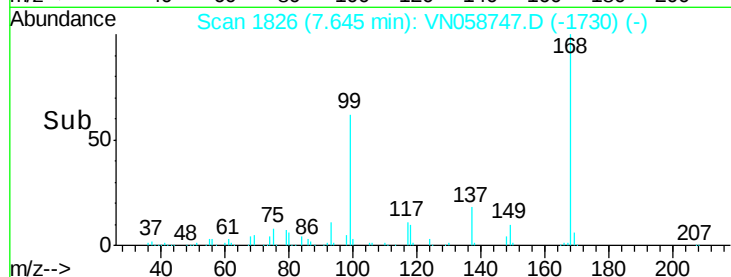
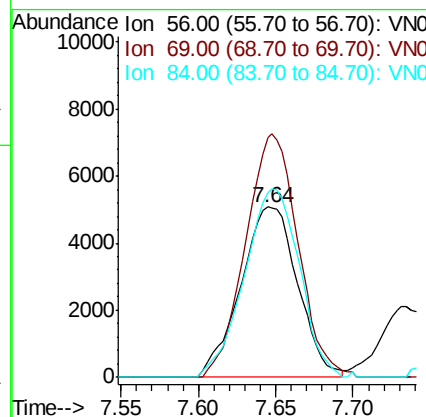
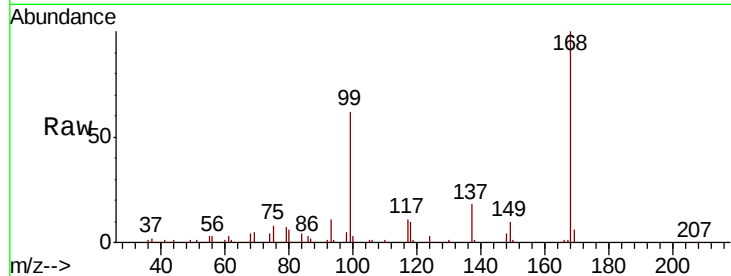
#31
Cyclohexane
Concen: 1.618 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
56	100		
69	140.7	26.2	39.4#
84	108.6	64.9	97.3#

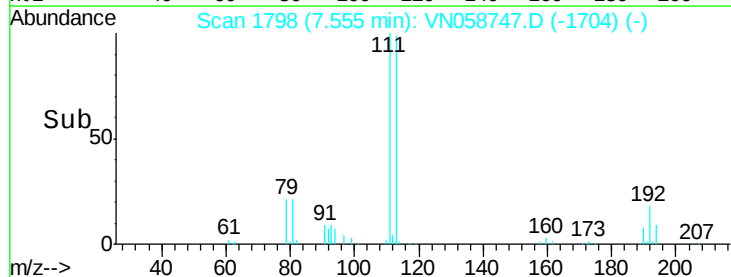
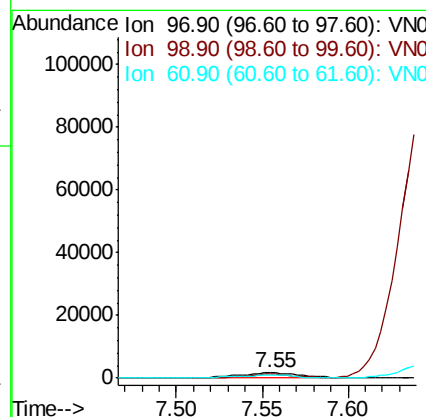
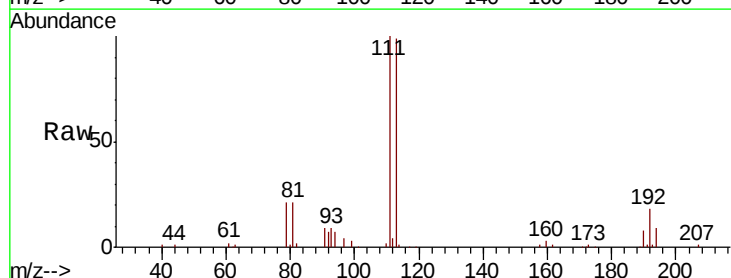
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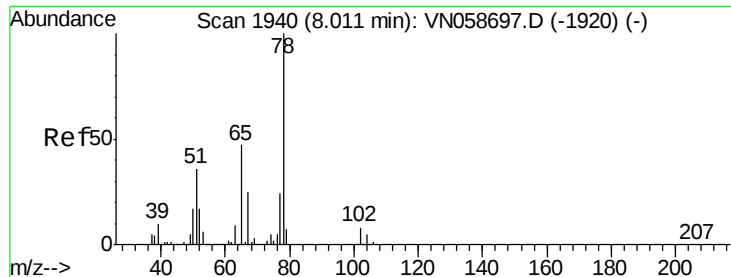
MMDadoda
10/16/2019 12:56:50 AM



#32
1,1,1-Trichloroethane
Concen: 0.579 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.8	76.2#
61	54.2	38.1	57.1





#33

1,2-Dichloroethane-d4

Concen: 53.568 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 65 Resp: 294211

Ion Ratio Lower Upper

65 100

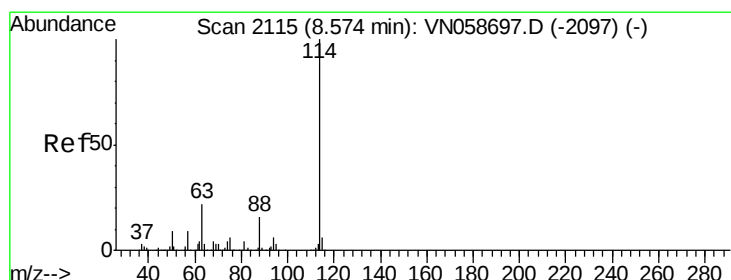
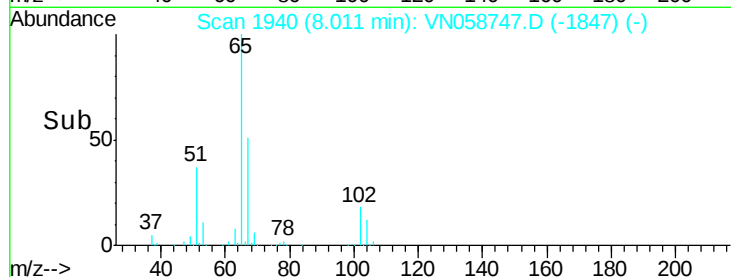
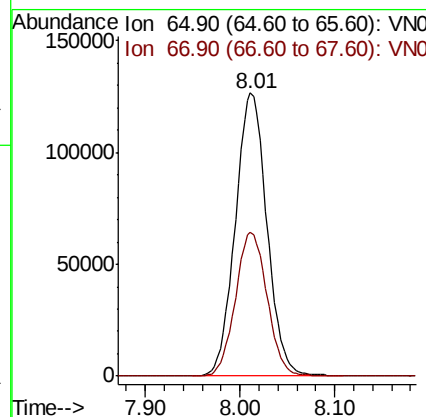
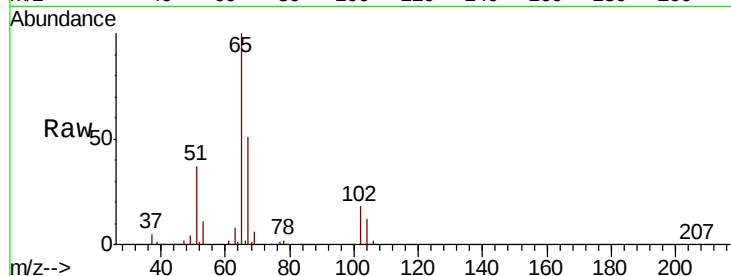
67 50.9 0.0 103.8

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

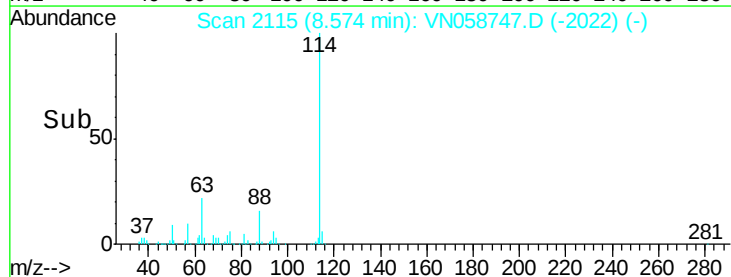
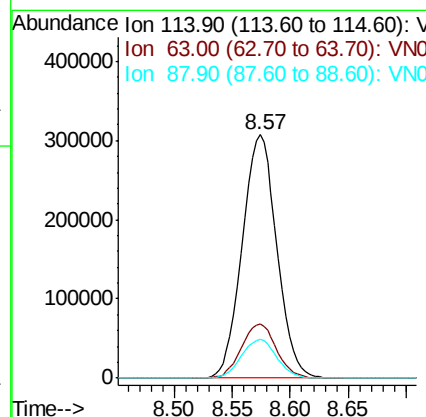
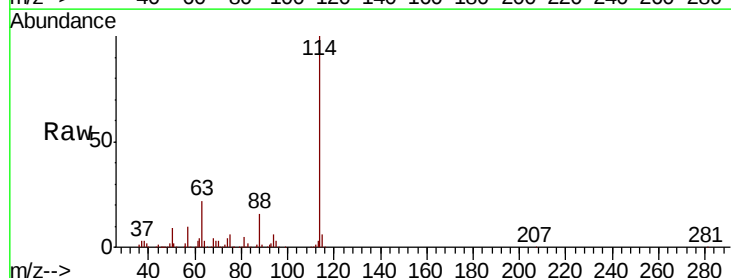
Tgt Ion: 114 Resp: 637218

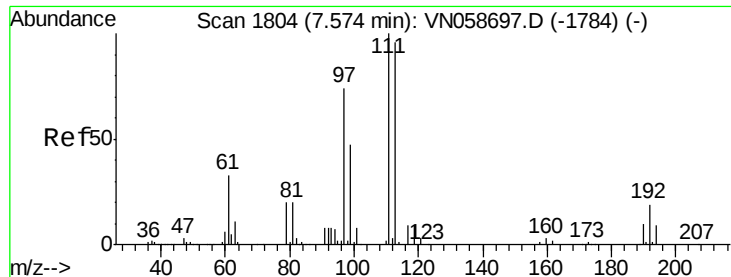
Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.8

88 15.9 0.0 32.0





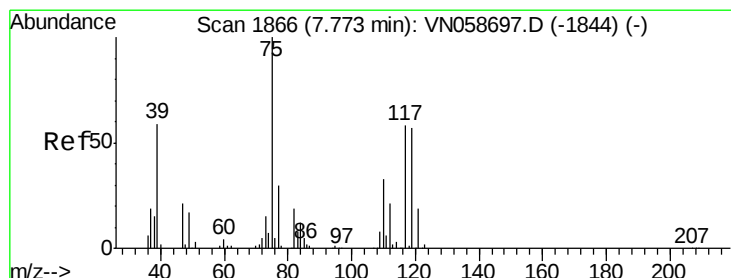
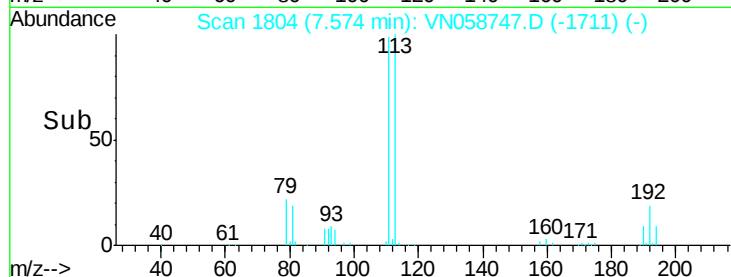
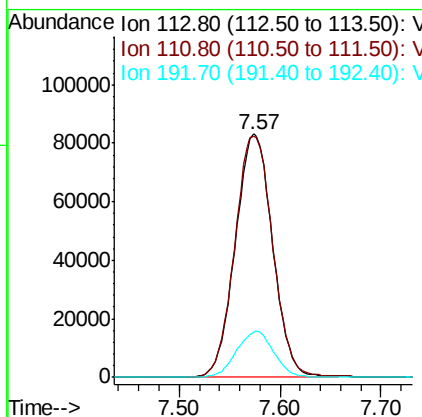
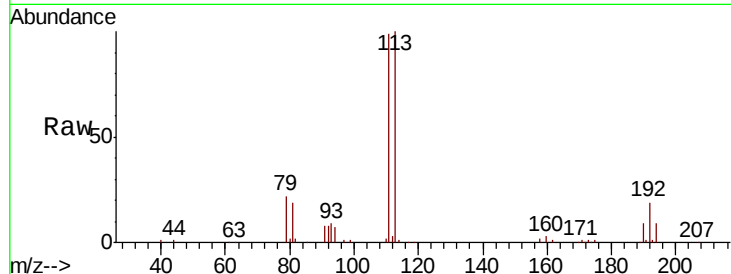
#35
 Dibromofluoromethane
 Concen: 54.027 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100	212650		
111	101.1	82.3	123.5	
192	18.9	15.0	22.6	

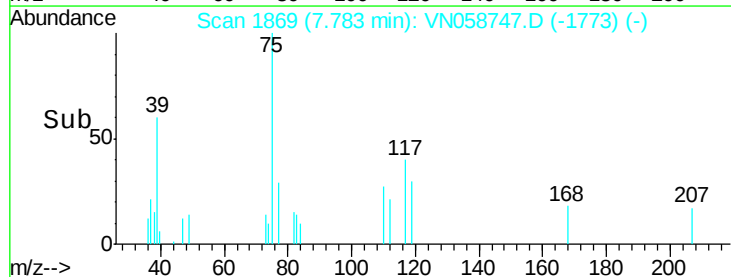
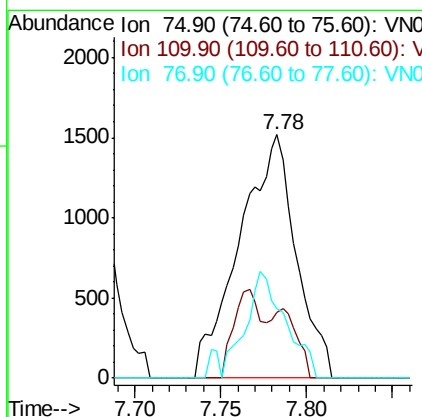
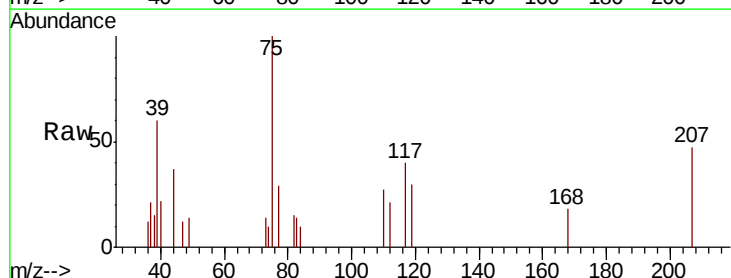
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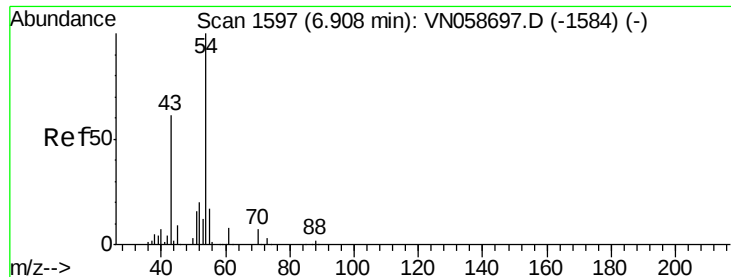
MMDadoda
 10/16/2019 12:56:50 AM



#36
 1,1-Dichloropropene
 Concen: 0.538 ug/l
 RT: 7.78 min Scan# 1869
 Delta R.T. 0.01 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	3469		
110	17.9	16.6	49.8	
77	30.6	24.6	37.0	





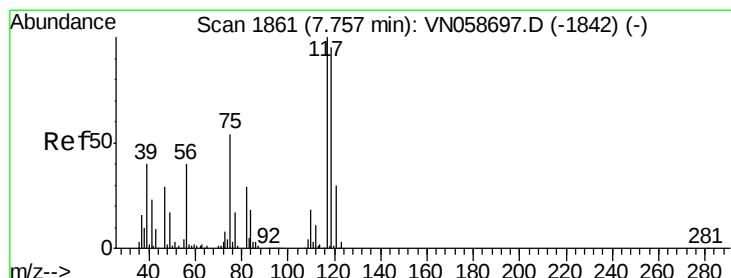
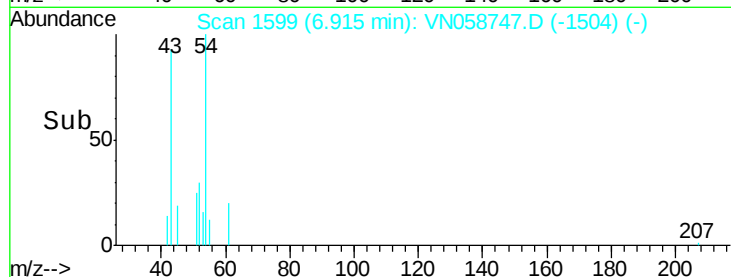
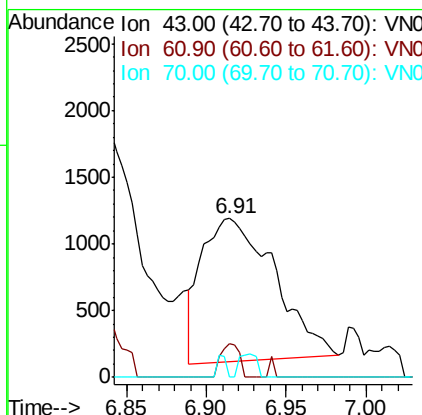
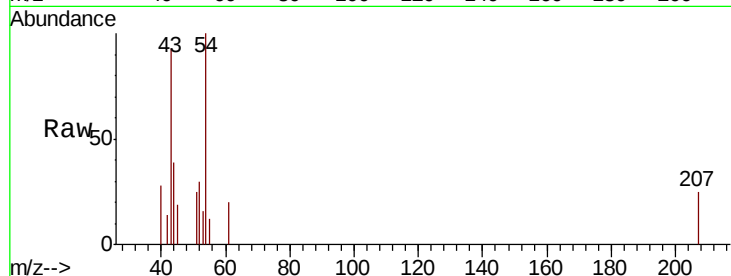
#37
Ethyl Acetate
Concen: 0.520 ug/l
RT: 6.91 min Scan# 1599
Delta R.T. 0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	6.0	11.3	16.9#
70	1.8	7.2	10.8#

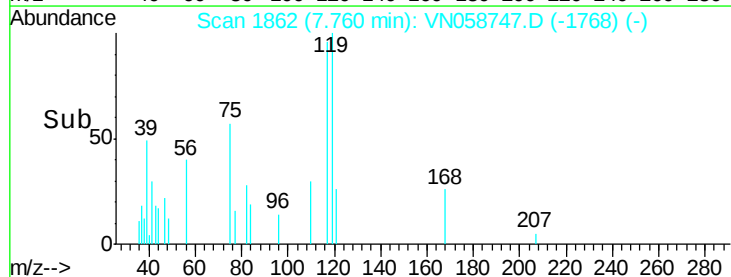
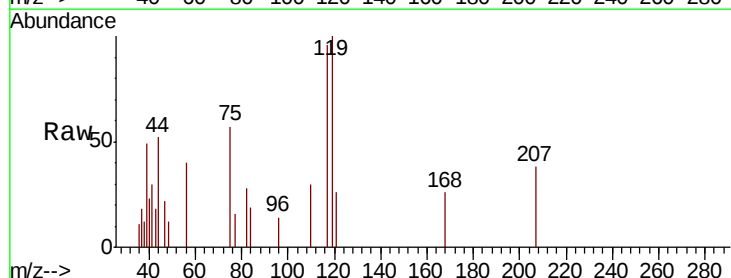
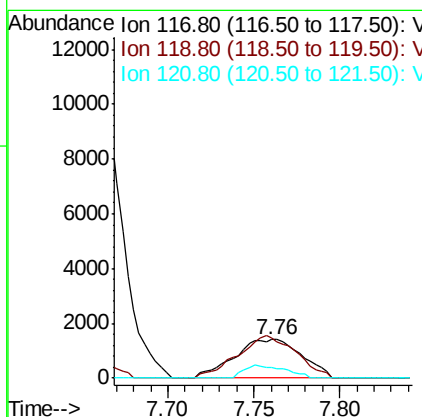
Manual Integrations
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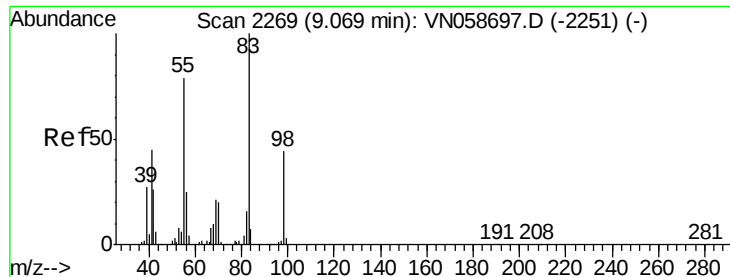
MMDadoda
10/16/2019 12:56:50 AM



#38
Carbon Tetrachloride
Concen: 0.612 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	103.7	75.7	113.5
121	26.9	23.9	35.9





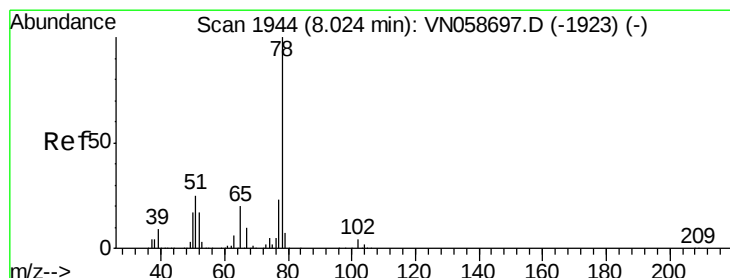
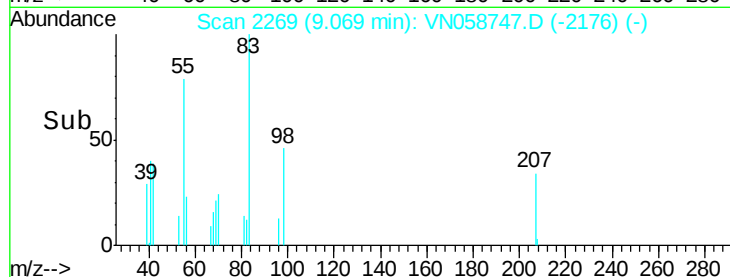
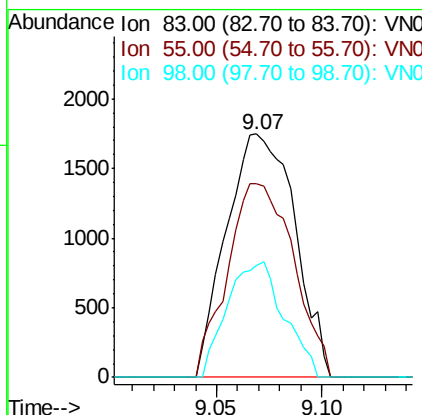
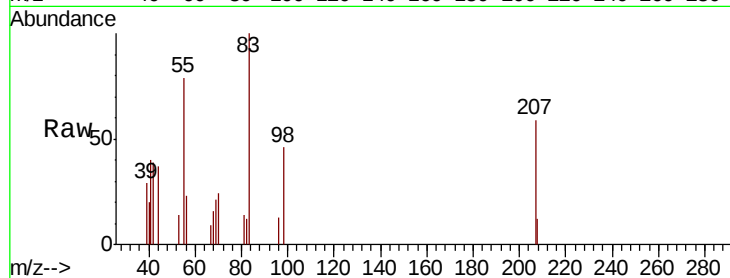
#39
Methvlcvclohexane
Concen: 0.527 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.4	63.4	95.0
98	46.1	35.1	52.7

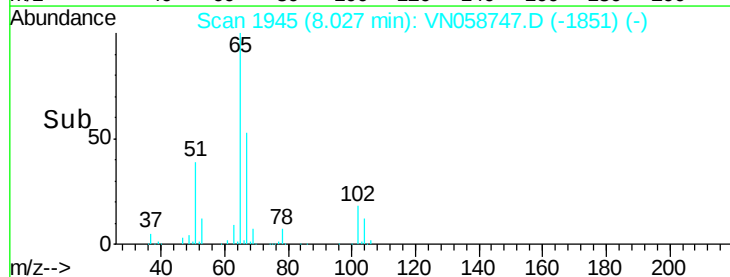
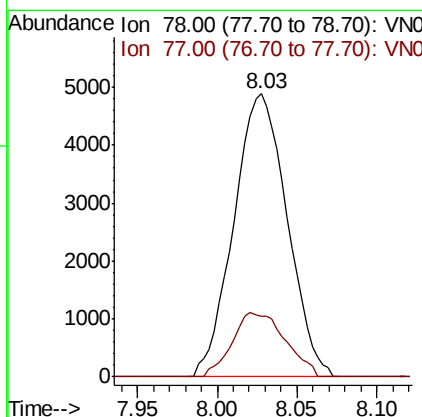
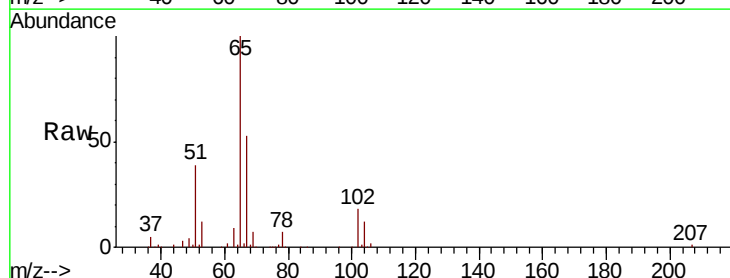
Manual Integrations
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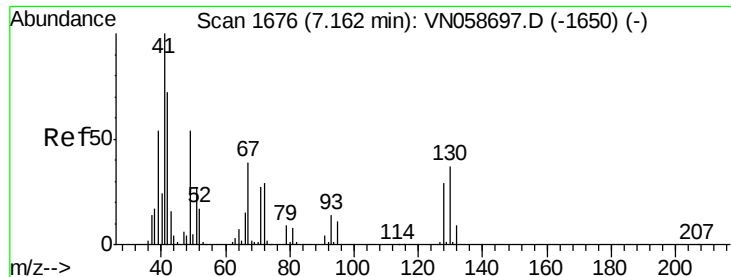
MMDadoda
10/16/2019 12:56:50 AM



#40
Benzene
Concen: 0.602 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.2	18.8	28.2





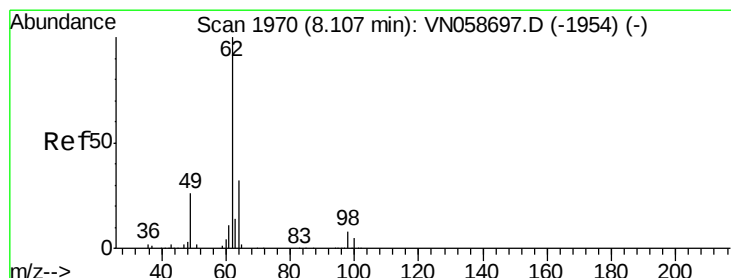
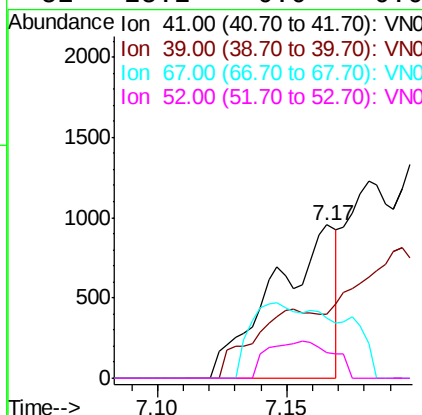
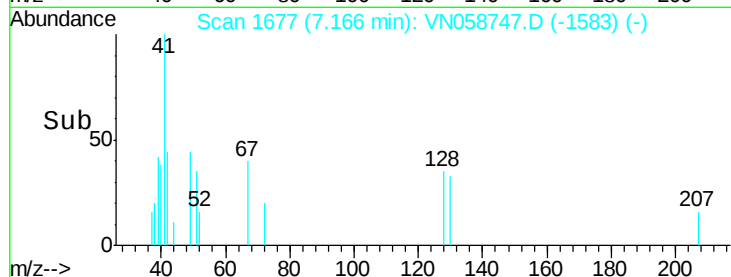
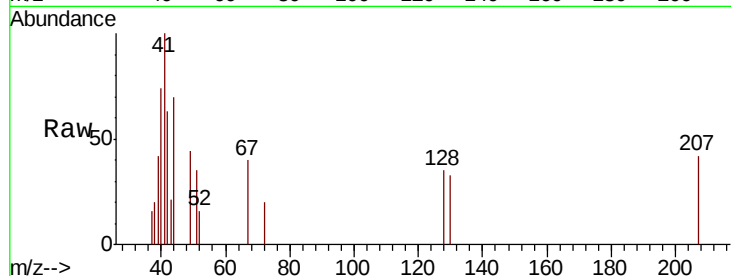
#41
Methacrylonitrile
Concen: 0.522 ug/l m
RT: 7.17 min Scan# 1677
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ion	Ratio	Resp:	Lower	Upper
41	100		1593		
39	46.7	115.4	173.2#		
67	73.6	0.0	0.0#		
52	25.2	0.0	0.0#		

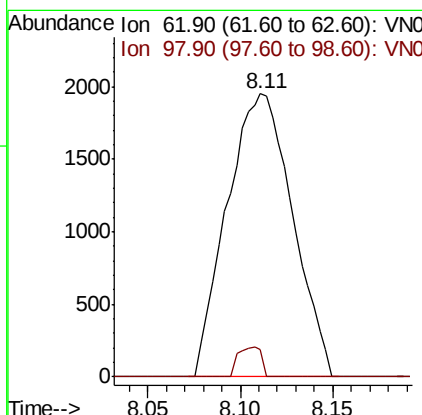
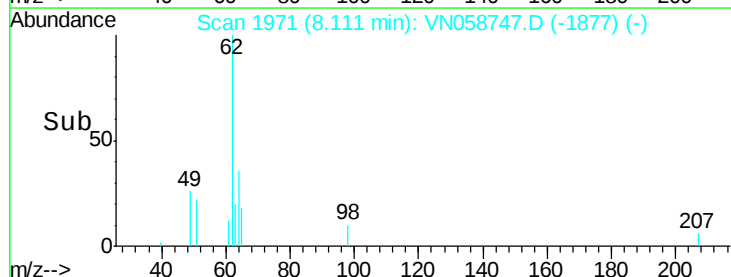
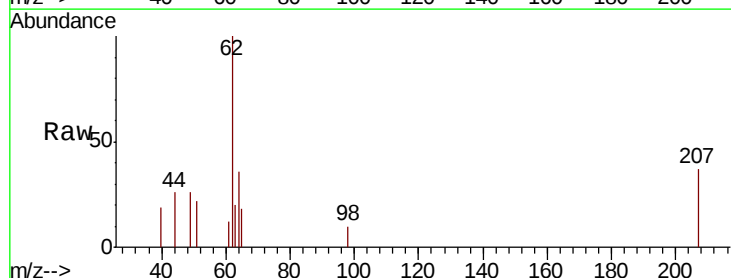
Manual Integrations
APPROVED

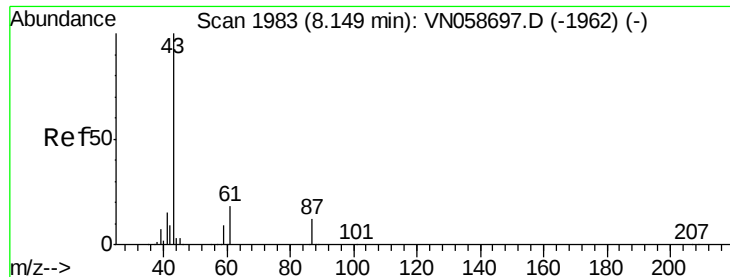
MMDadoda
10/16/2019 12:56:50 AM



#42
1,2-Dichloroethane
Concen: 0.675 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ion	Ratio	Resp:	Lower	Upper
62	100		4795		
98	3.8	0.0	15.8		





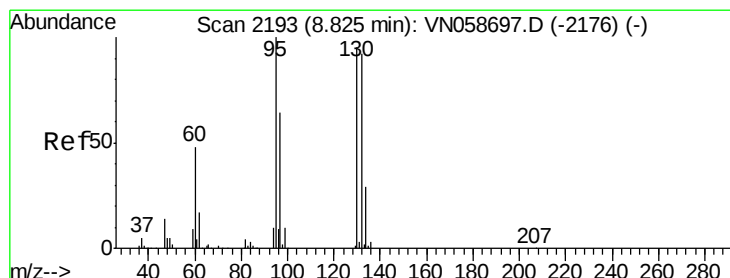
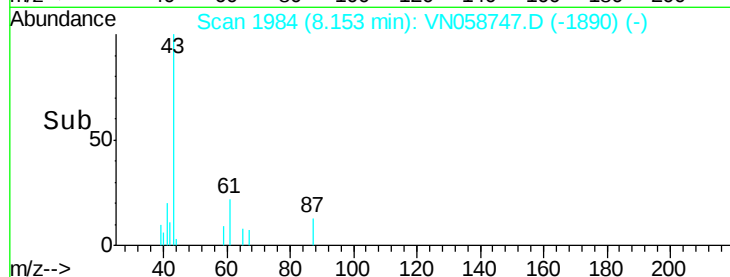
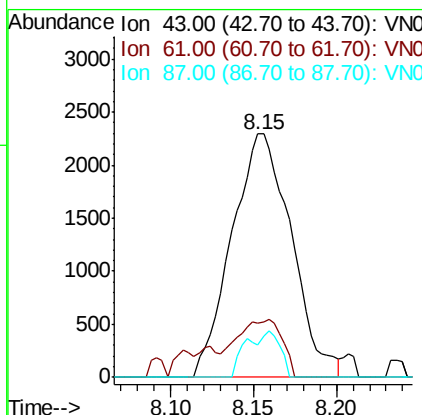
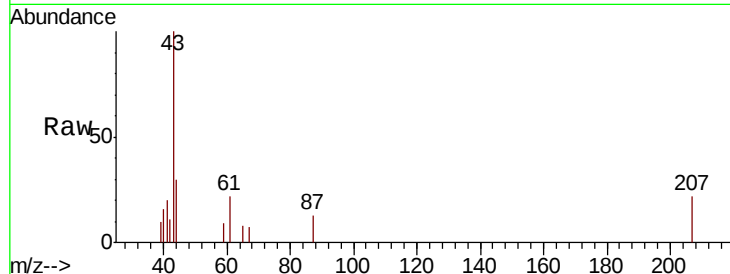
#43
Isopropyl Acetate
Concen: 0.517 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.2	20.3	30.5#
87	5.8	9.8	14.6#

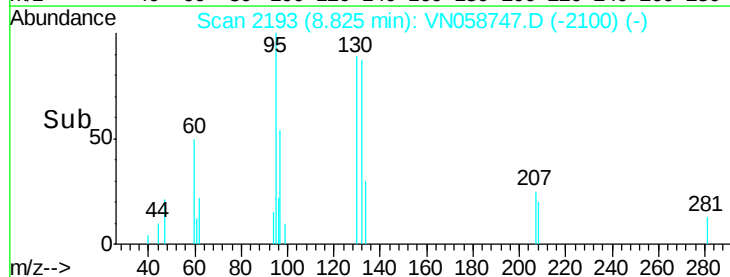
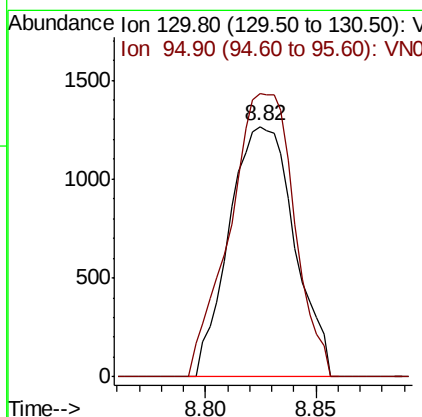
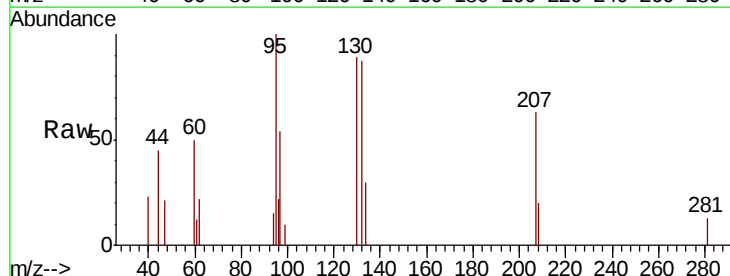
Manual Integrations
APPROVED

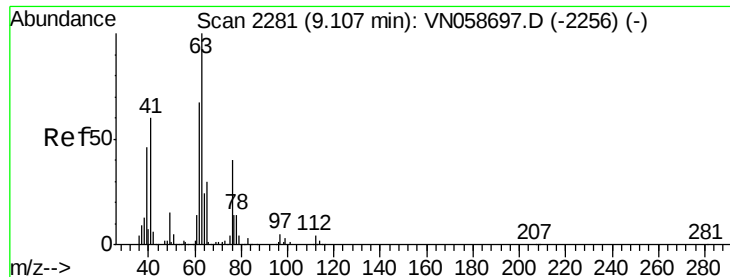
MMDadoda
10/16/2019 12:56:50 AM



#44
Trichloroethene
Concen: 0.565 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
130	100		
95	112.9	0.0	211.2





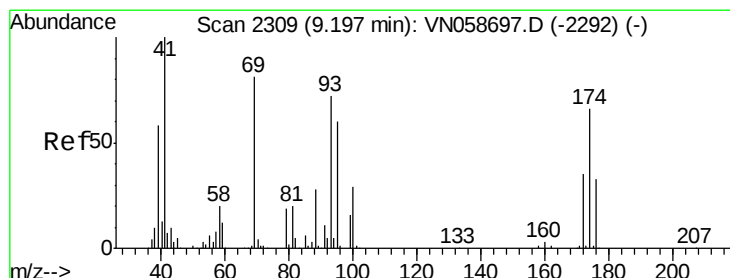
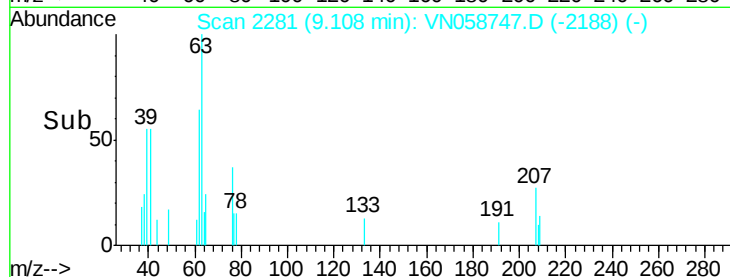
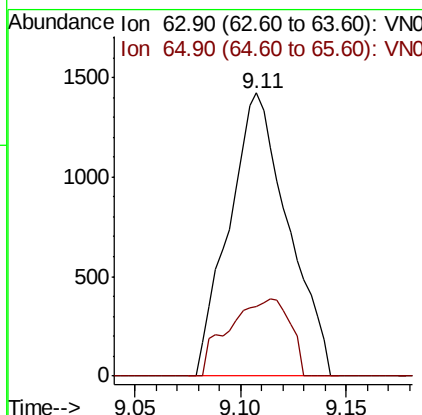
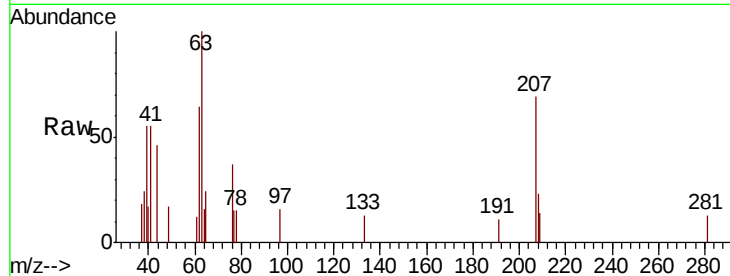
#45
 1,2-Dichloropropane
 Concen: 0.557 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion: 63 Resp: 2757
 Ion Ratio Lower Upper
 63 100
 65 24.4 24.1 36.1

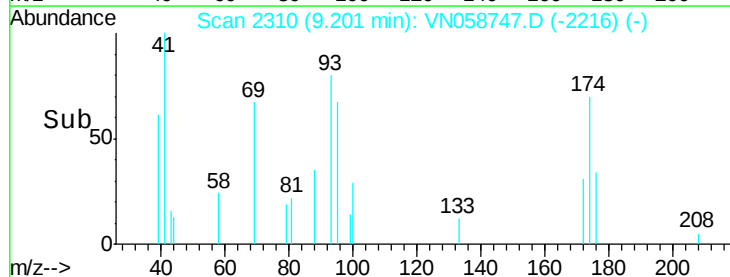
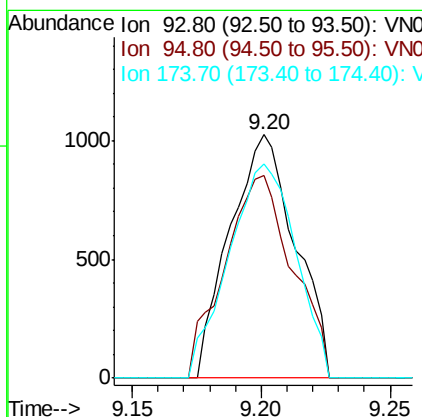
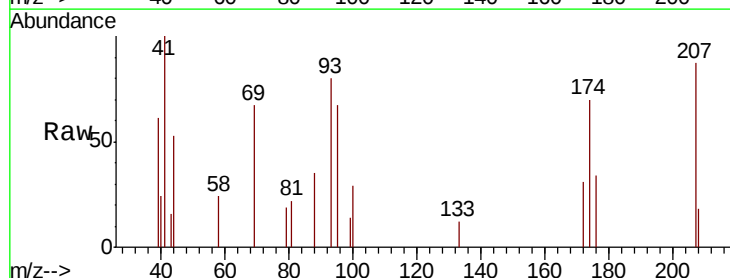
Manual Integrations
 APPROVED

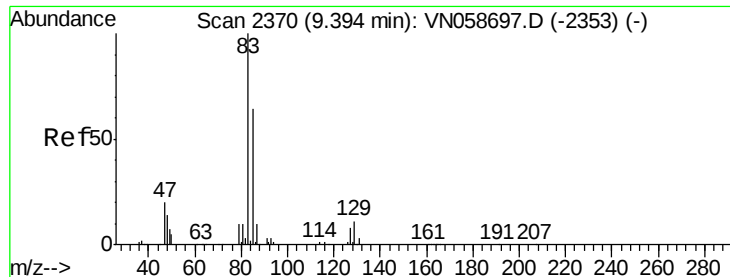
MMDadoda
 10/16/2019 12:56:50 AM



#46
 Dibromomethane
 Concen: 0.576 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion: 93 Resp: 1808
 Ion Ratio Lower Upper
 93 100
 95 86.6 66.6 100.0
 174 90.5 75.2 112.8





#47

Bromodichloromethane

Concen: 0.540 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

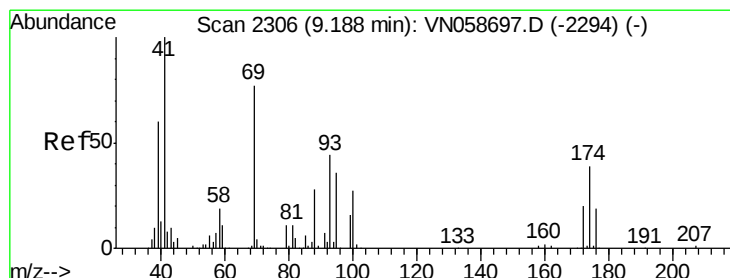
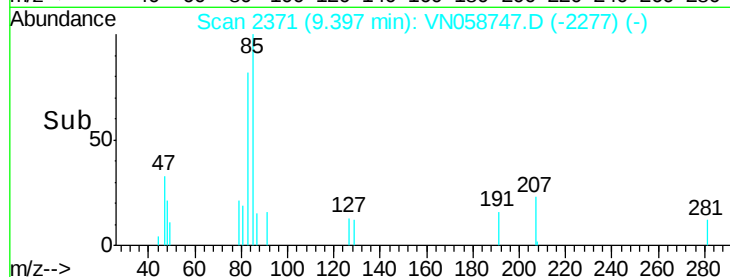
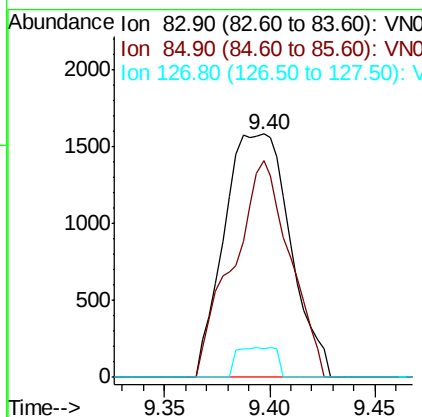
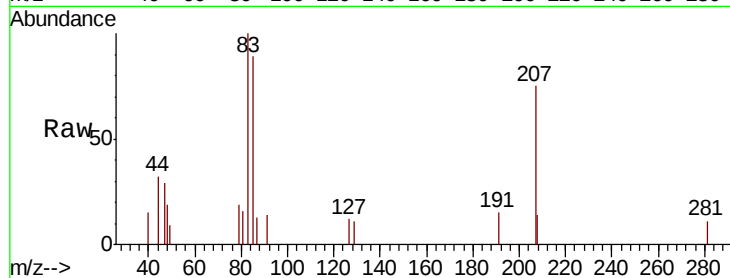
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	83	Resp:	3454
Ion Ratio	Lower	Upper	
83	100		
85	88.9	50.9	76.3#
127	11.9	6.3	9.5#

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:56:50 AM



#48

Methyl methacrylate

Concen: 0.577 ug/l

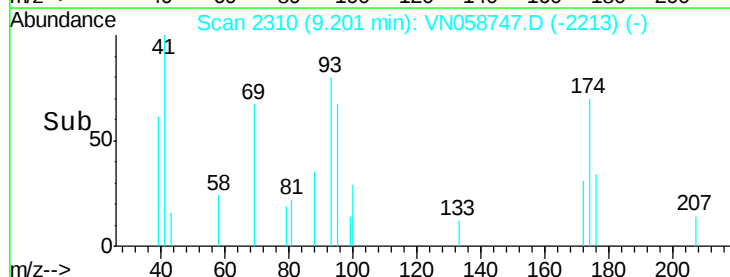
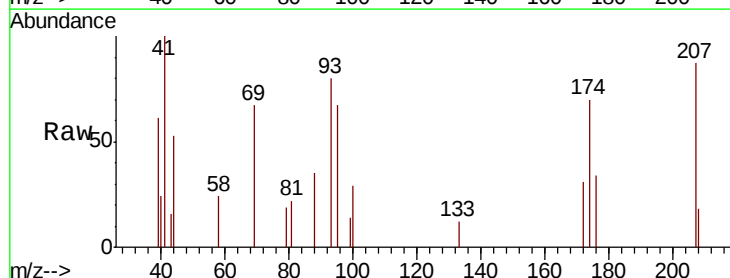
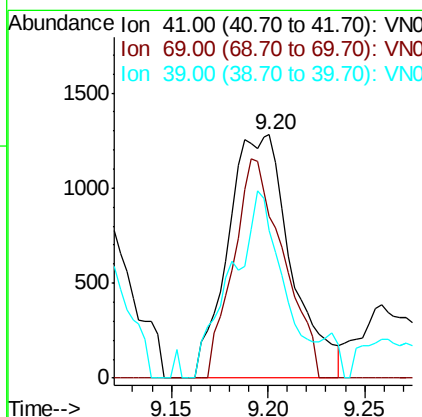
RT: 9.20 min Scan# 2310

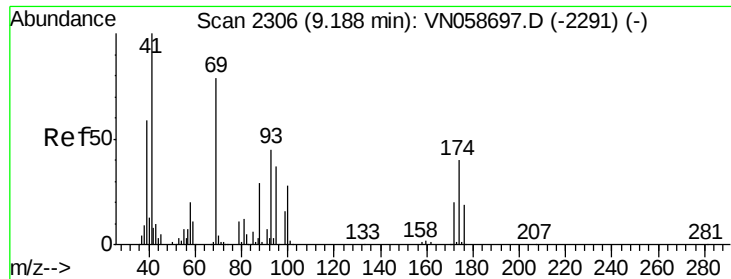
Delta R.T. 0.01 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Tgt Ion:	41	Resp:	2902
Ion Ratio	Lower	Upper	
41	100		
69	71.5	63.4	95.2
39	64.1	48.9	73.3





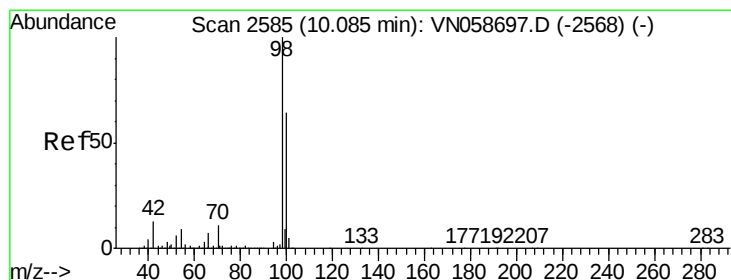
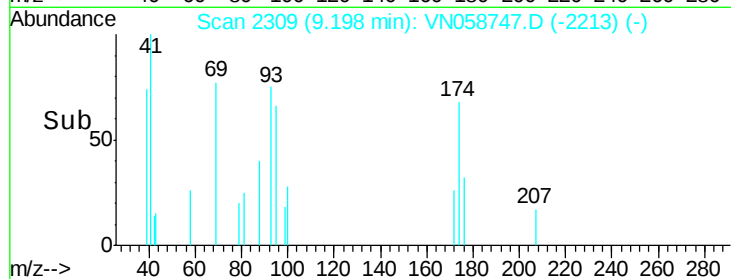
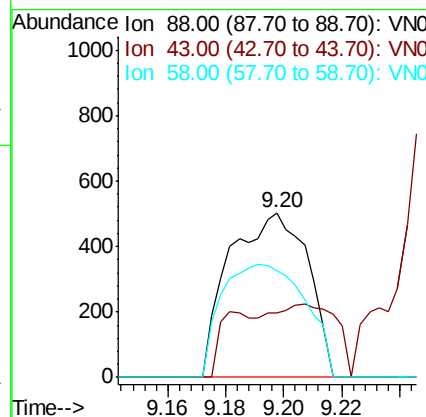
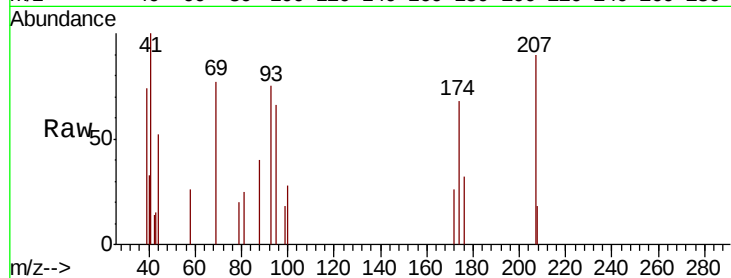
#49
1,4-Dioxane
Concen: 12.102 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.01 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	19.1	28.6	43.0#
58	73.2	57.2	85.8

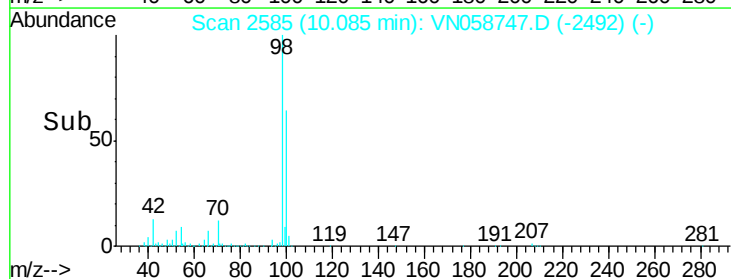
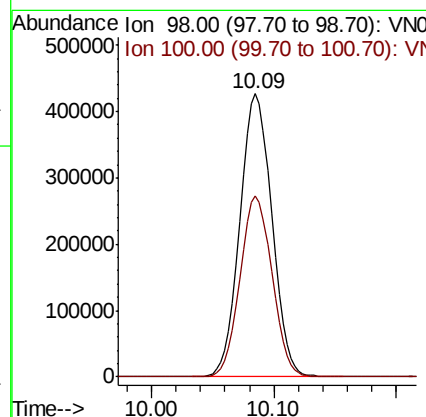
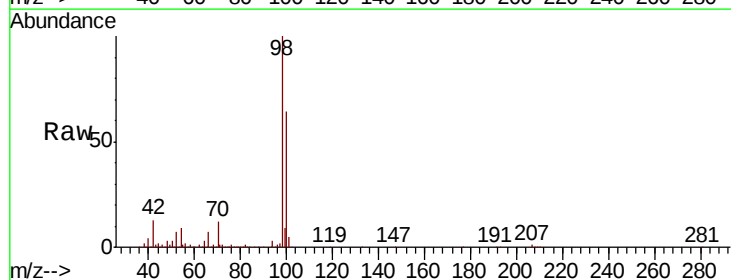
Manual Integrations
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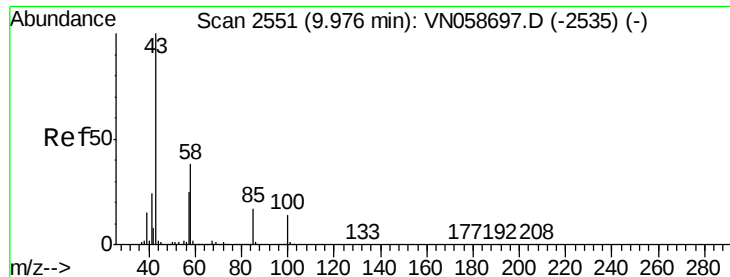
MMDadoda
10/16/2019 12:56:50 AM



#50
Toluene-d8
Concen: 49.289 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.1	76.7





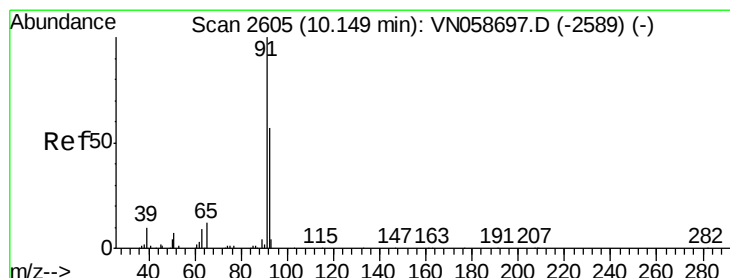
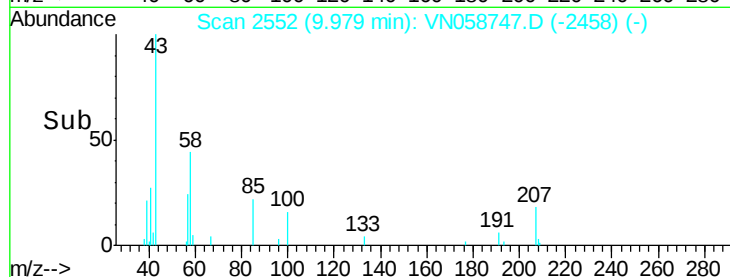
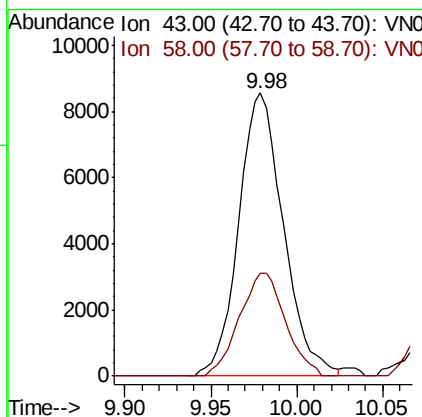
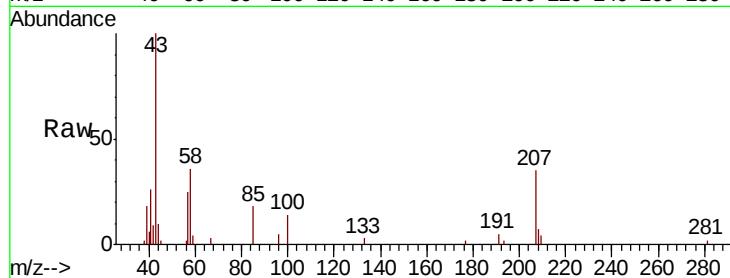
#51
4-Methyl-2-Pentanone
Concen: 2.488 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	37.2	30.3	45.5

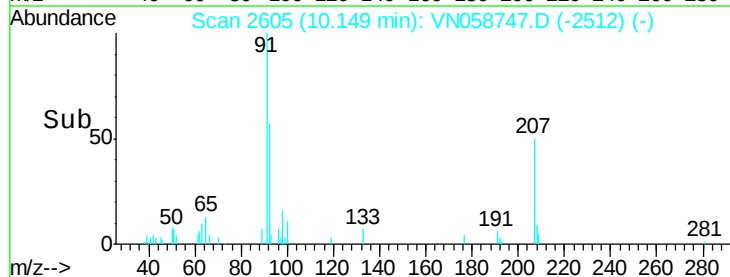
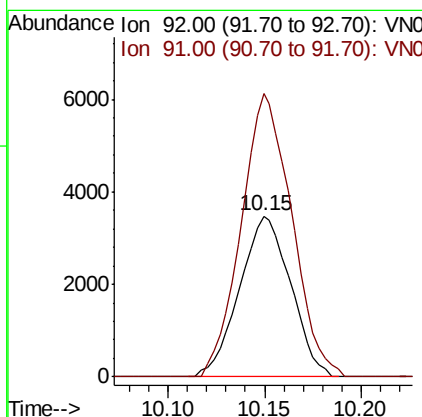
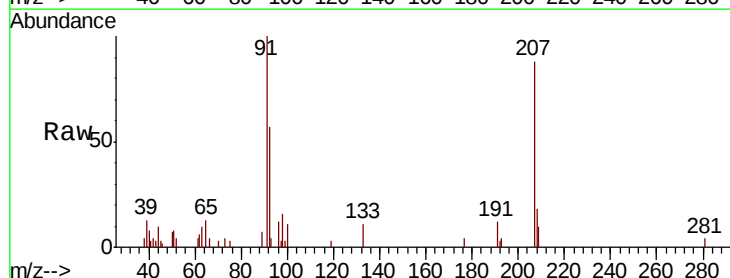
Manual Integrations
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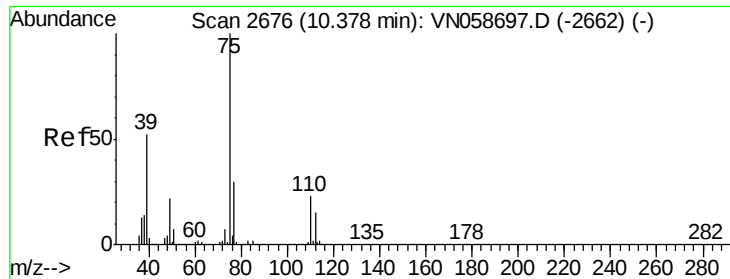
MMDadoda
10/16/2019 12:56:50 AM



#52
Toluene
Concen: 0.564 ug/l
RT: 10.15 min Scan# 2605
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
92	100		
91	174.0	139.1	208.7





#53

t-1,3-Dichloropropene

Concen: 0.492 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 75 Resp: 3606

Ion Ratio Lower Upper

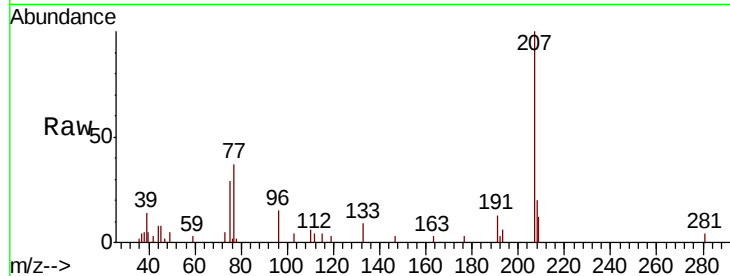
75 100

77 53.8 26.2 39.4#

Manual Integrations
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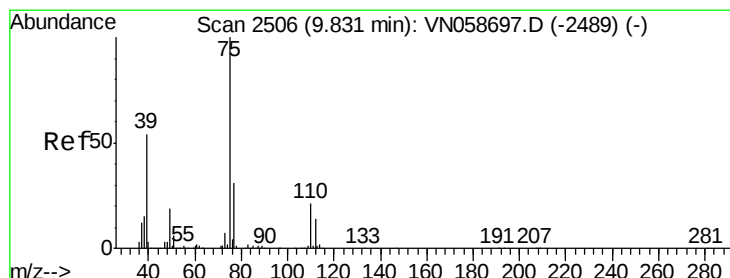
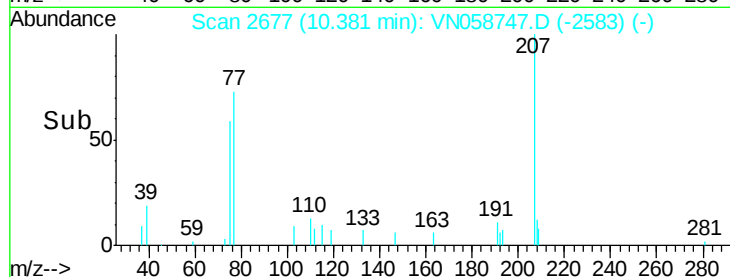
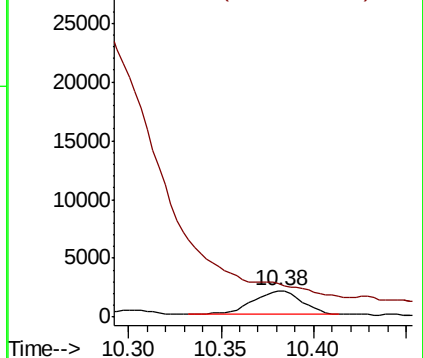
MMDadoda

10/16/2019 12:56:50 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 0.514 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

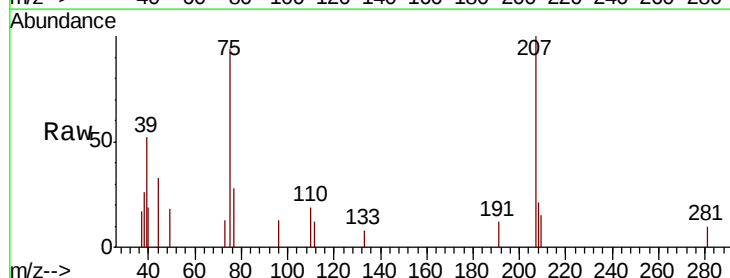
Tgt Ion: 75 Resp: 3999

Ion Ratio Lower Upper

75 100

77 30.0 24.4 36.6

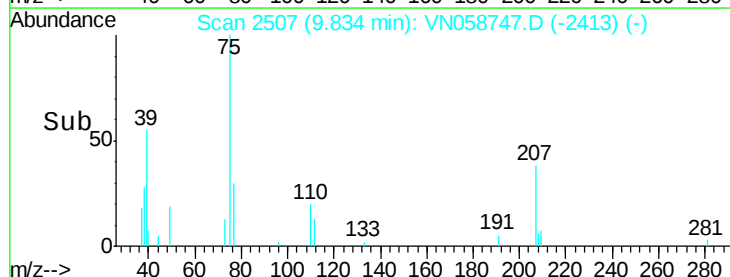
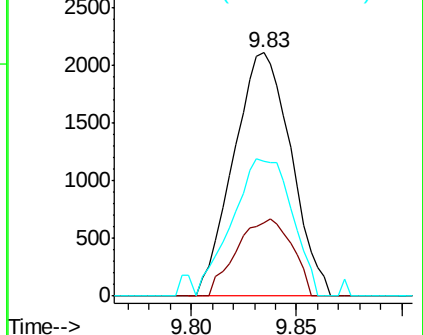
39 55.3 43.1 64.7

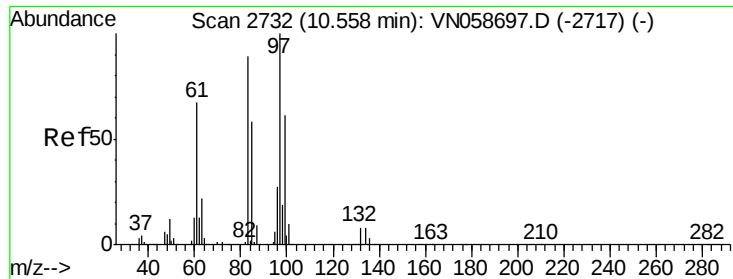


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





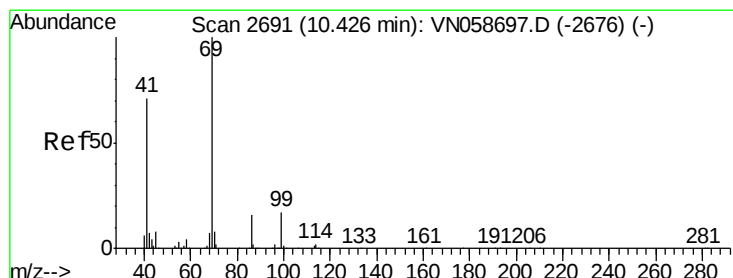
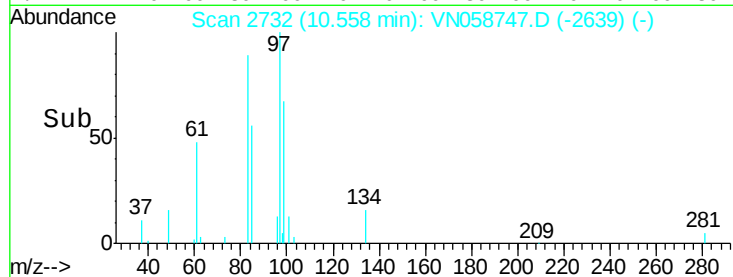
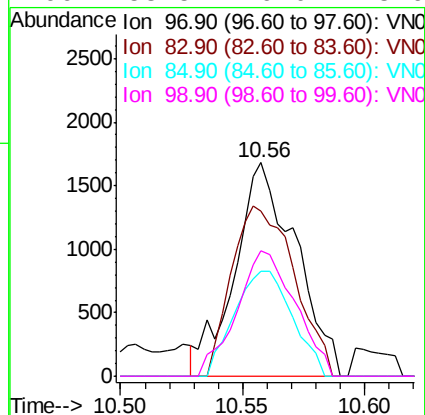
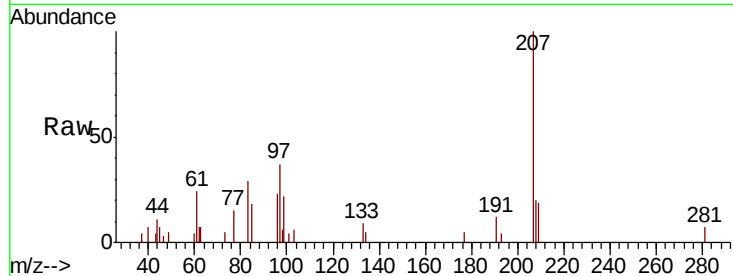
#55
 1,1,2-Trichloroethane
 Concen: 0.629 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion:	97	Resp:	2915
Ion	Ratio	Lower	Upper
97	100		
83	77.1	71.2	106.8
85	49.2	46.7	70.1
99	58.5	49.0	73.6

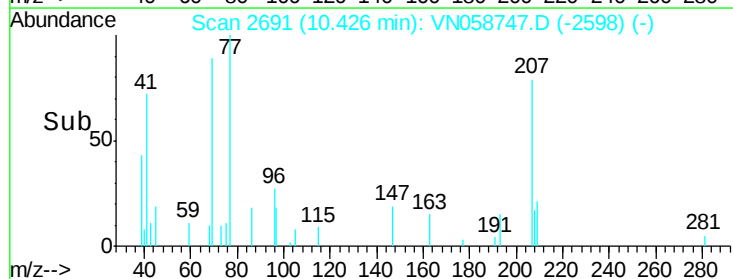
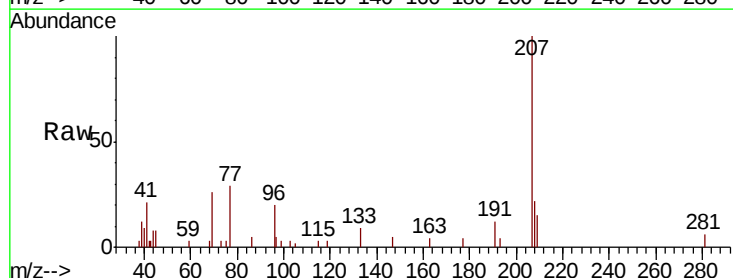
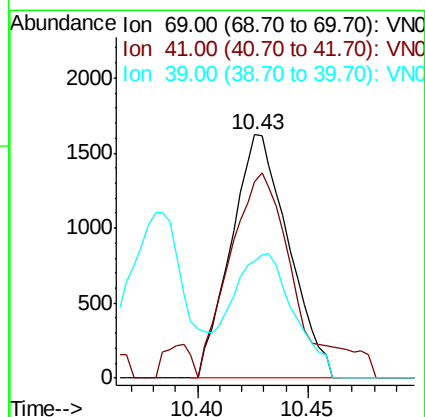
Manual Integrations
 APPROVED

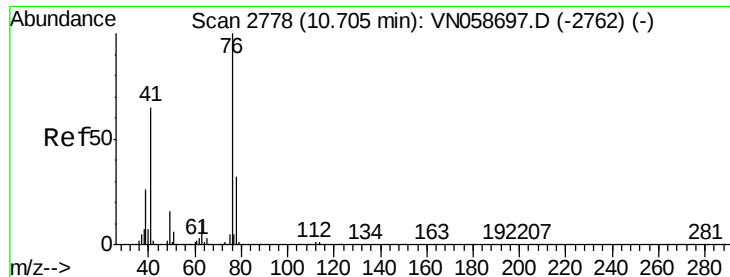
MMDadoda
 10/16/2019 12:56:50 AM



#56
 Ethyl methacrylate
 Concen: 0.432 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion:	69	Resp:	2923
Ion	Ratio	Lower	Upper
69	100		
41	95.1	56.8	85.2#
39	54.8	32.5	48.7#





#57

1,3-Dichloropropane

Concen: 0.594 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 76 Resp: 4689

Ion Ratio Lower Upper

76 100

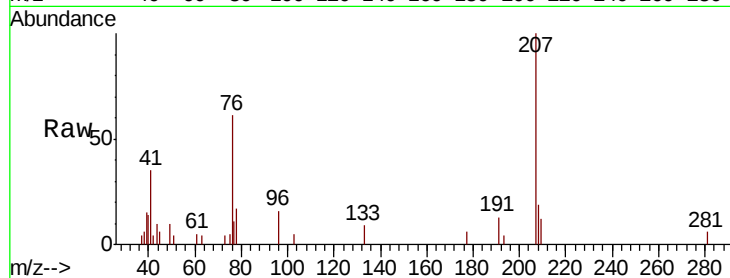
78 32.6 25.9 38.9

Manual Integrations

APPROVED

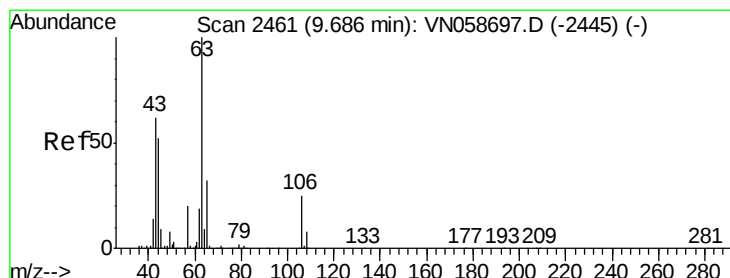
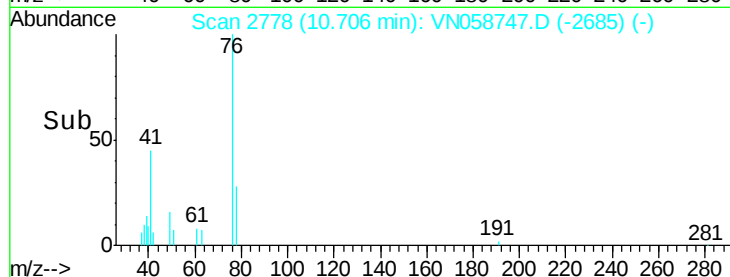
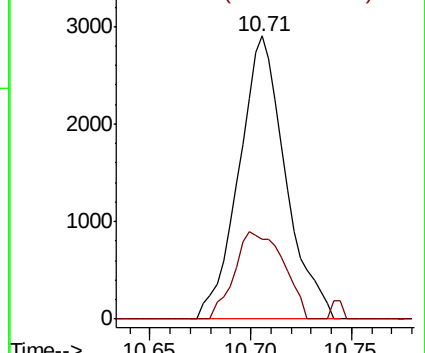
MMDadoda

10/16/2019 12:56:50 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 2.008 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.01 min

Lab File: VN058747.D

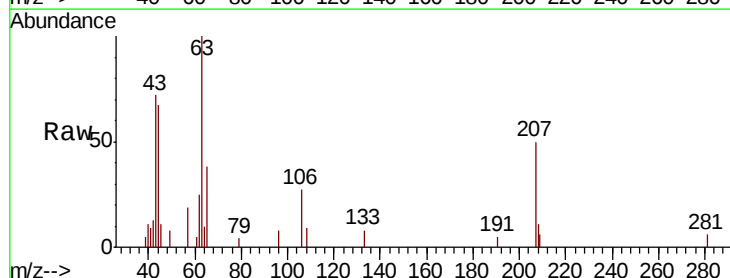
Acq: 14 Oct 2019 14:20

Tgt Ion: 63 Resp: 6550

Ion Ratio Lower Upper

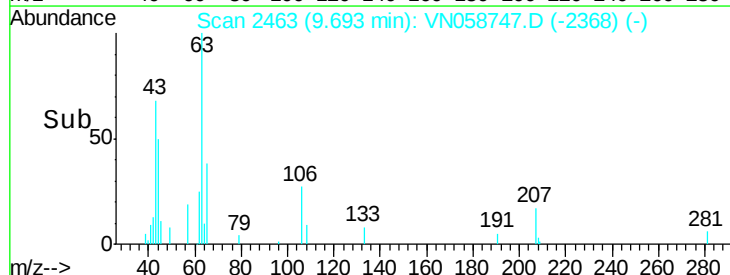
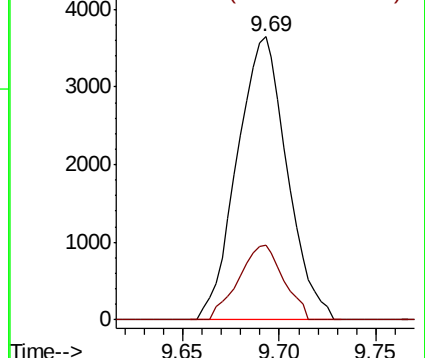
63 100

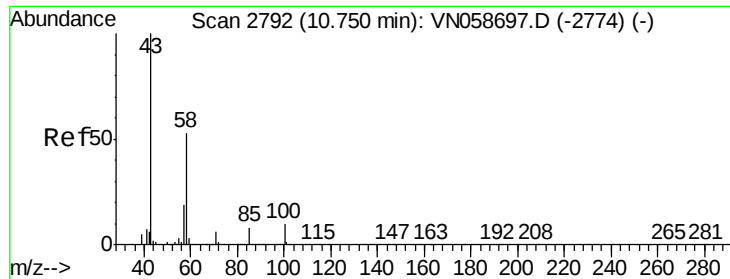
106 23.9 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





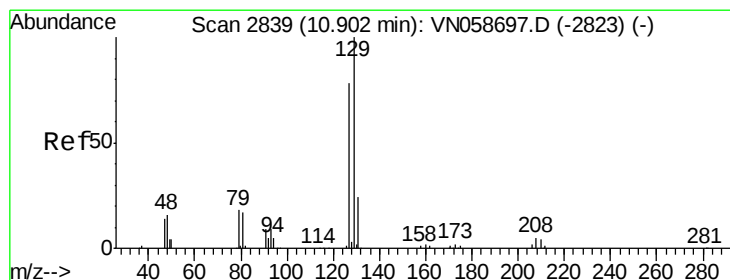
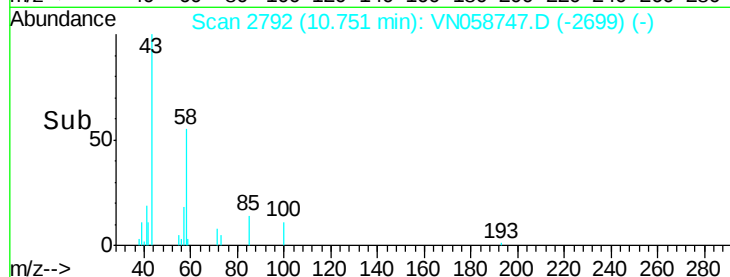
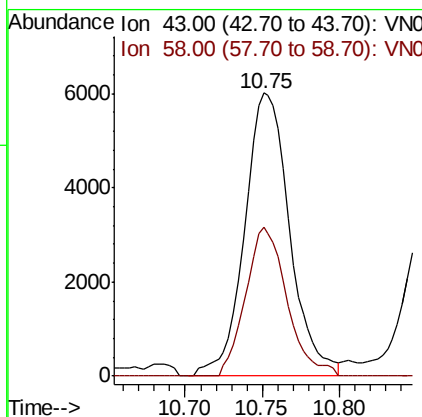
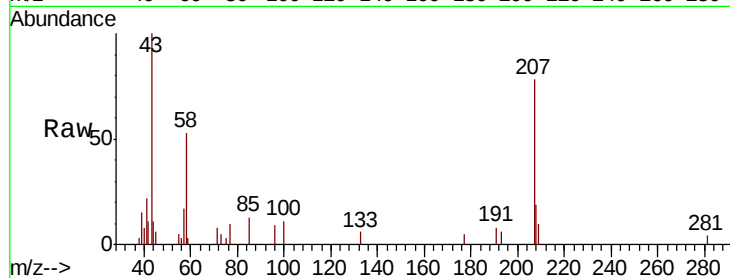
#59
2-Hexanone
Concen: 2.529 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.2	26.1	78.3

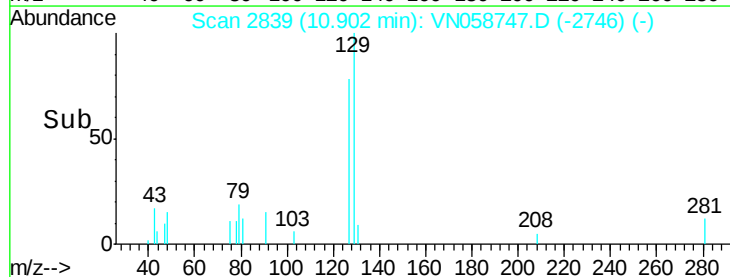
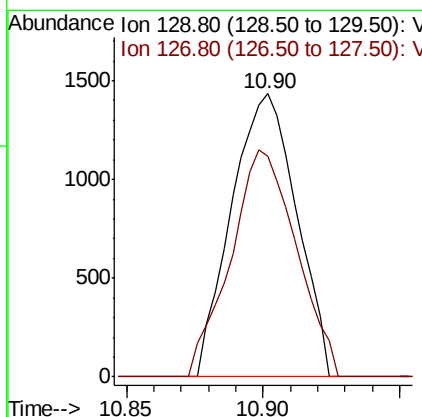
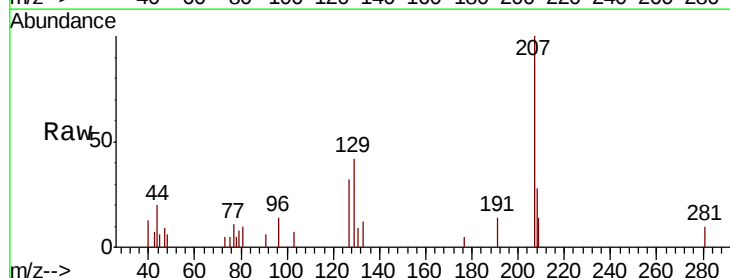
Manual Integrations
APPROVED

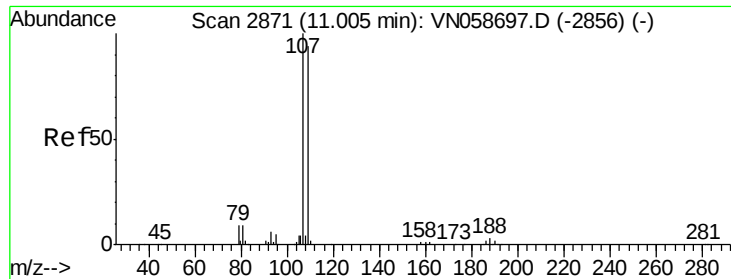
MMDadoda
10/16/2019 12:56:50 AM



#60
Dibromochloromethane
Concen: 0.495 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
129	100		
127	81.4	38.5	115.3





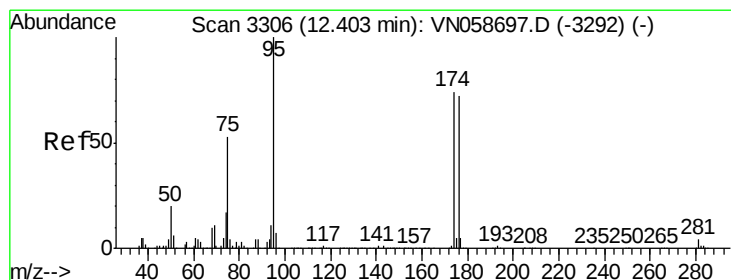
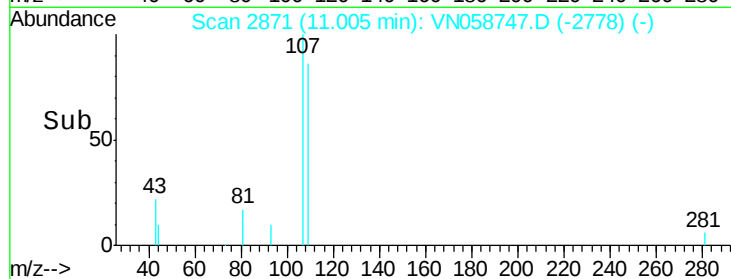
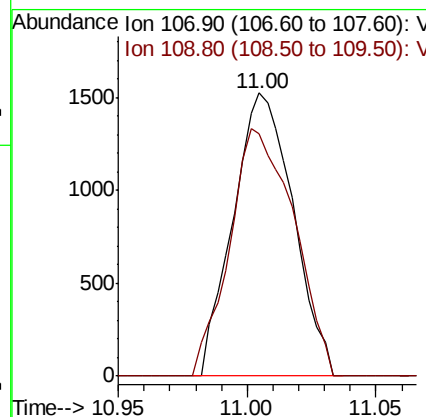
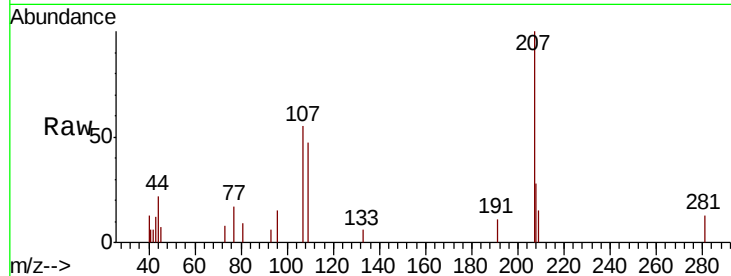
#61
 1,2-Dibromoethane
 Concen: 0.532 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion: 107 Resp: 2468
 Ion Ratio Lower Upper
 107 100
 109 94.0 75.4 113.0

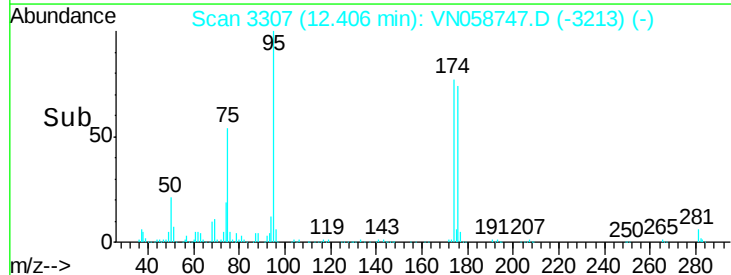
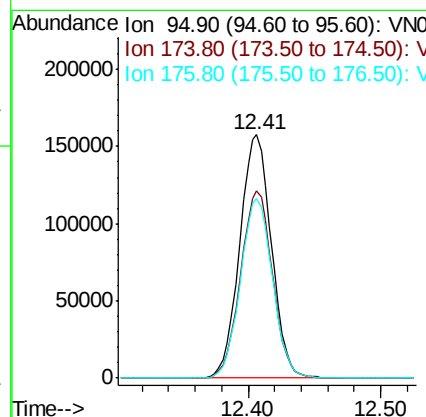
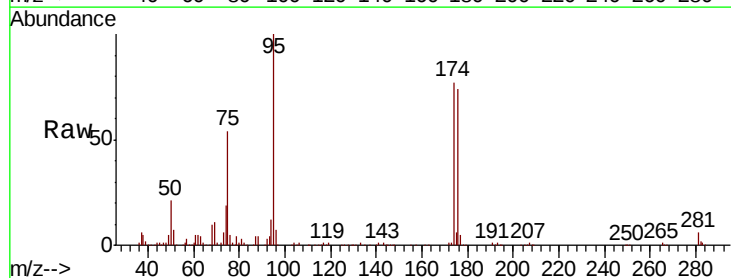
Manual Integrations
 APPROVED

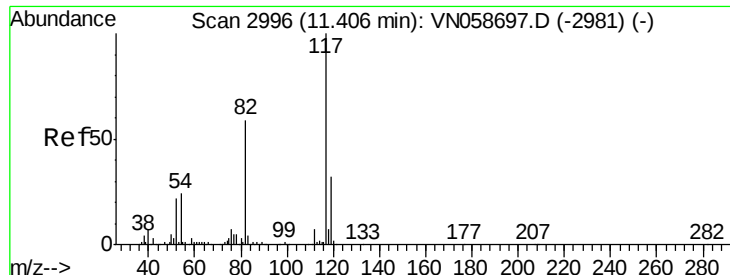
MMDadoda
 10/16/2019 12:56:50 AM



#62
 4-Bromofluorobenzene
 Concen: 43.784 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion: 95 Resp: 260855
 Ion Ratio Lower Upper
 95 100
 174 77.8 0.0 150.4
 176 74.9 0.0 146.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

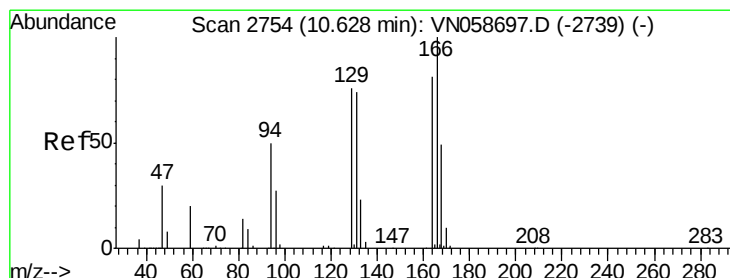
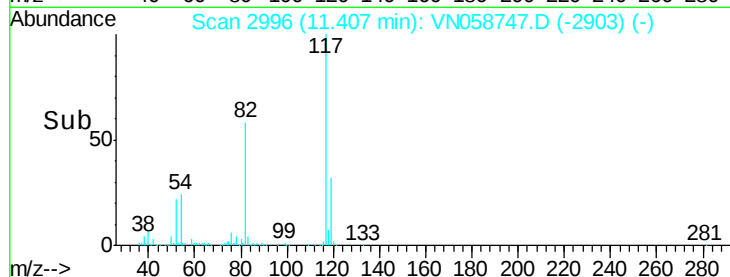
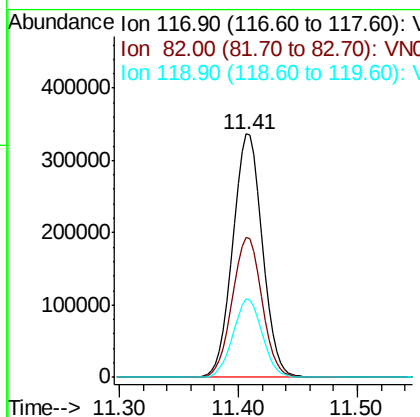
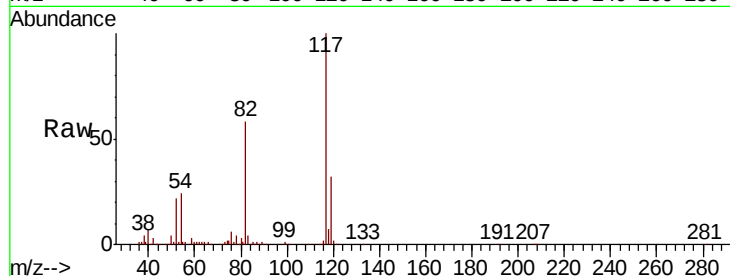
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	117	Resp:	581459
Ion Ratio	Lower	Upper	
117	100		
82	57.7	47.0	70.4
119	32.0	25.4	38.2

Manual Integrations
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#64

Tetrachloroethene

Concen: 0.660 ug/l

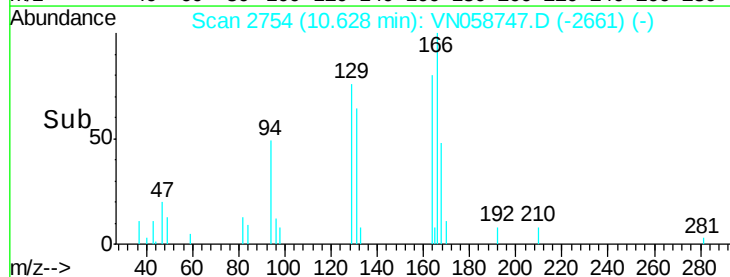
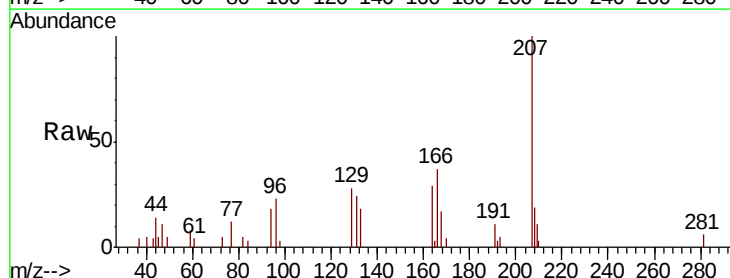
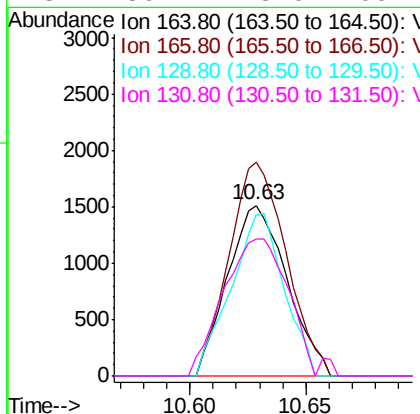
RT: 10.63 min Scan# 2754

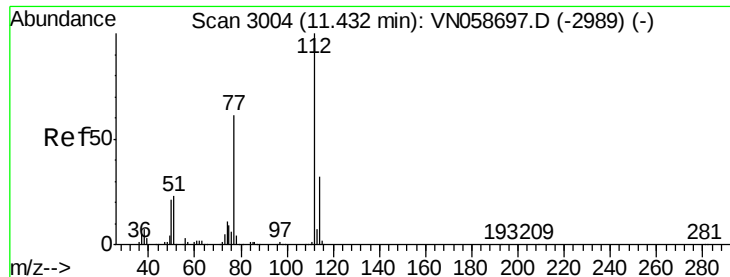
Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Tgt Ion:	164	Resp:	2687
Ion Ratio	Lower	Upper	
164	100		
166	125.3	99.3	148.9
129	95.0	75.2	112.8
131	80.4	73.0	109.4





#65

Chlorobenzene

Concen: 0.551 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:112 Resp: 6512

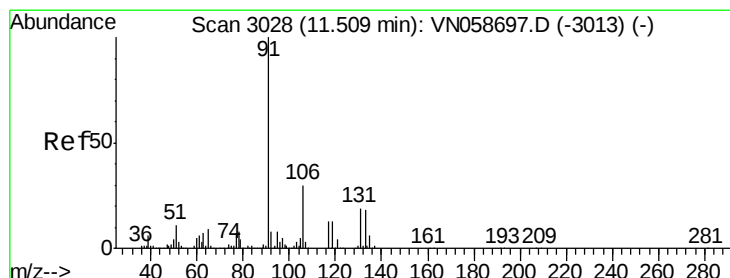
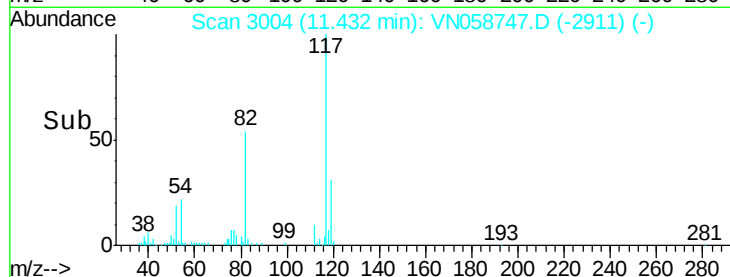
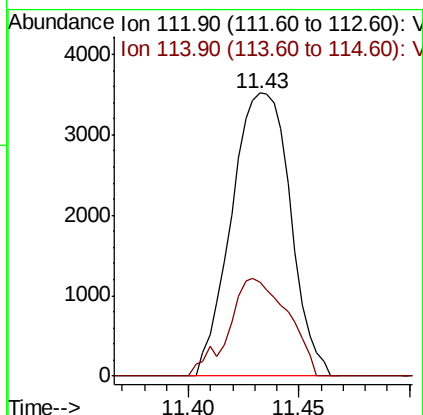
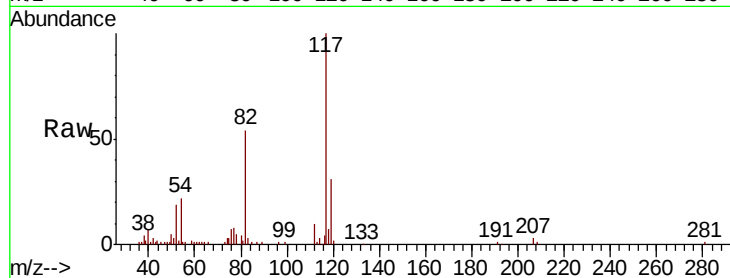
Ion Ratio Lower Upper

112 100

114 33.1 25.2 37.8

Manual Integrations
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10/16/2019 12:56:50 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 0.533 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

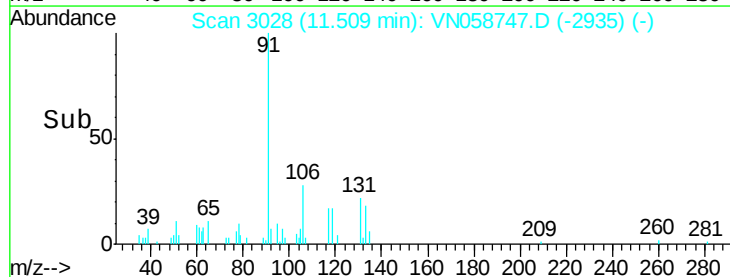
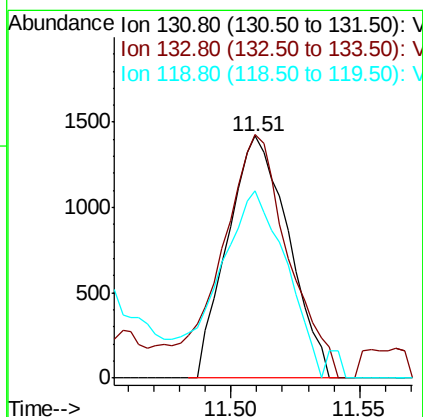
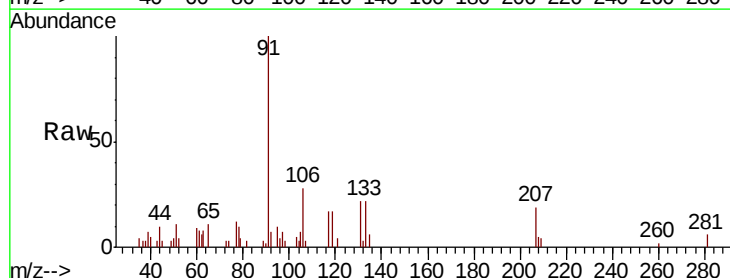
Tgt Ion:131 Resp: 2328

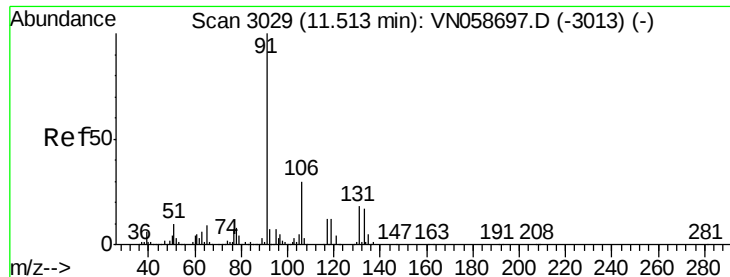
Ion Ratio Lower Upper

131 100

133 109.8 47.6 142.9

119 0.0 33.0 98.9#





#67

Ethyl Benzene

Concen: 0.506 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 91 Resp: 10648

Ion Ratio Lower Upper

91 100

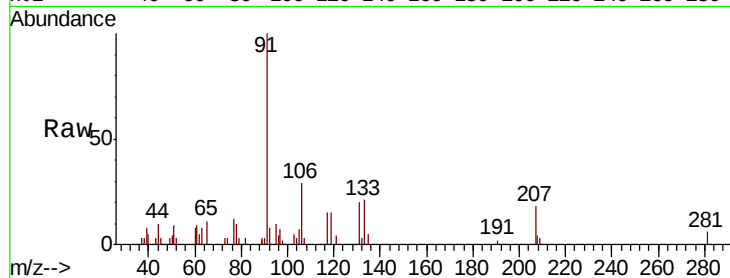
106 28.8 24.1 36.1

Manual Integrations

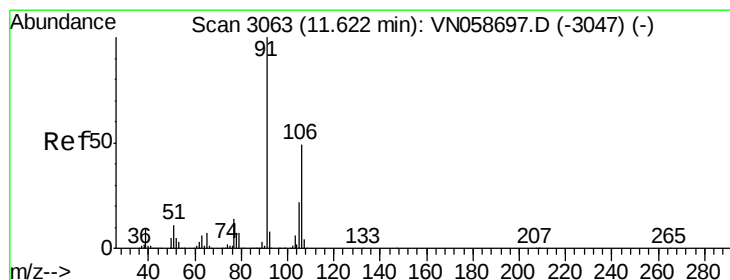
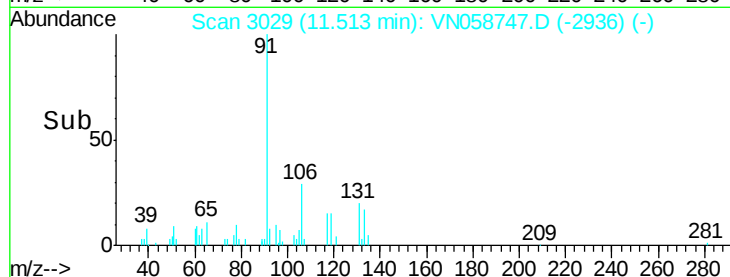
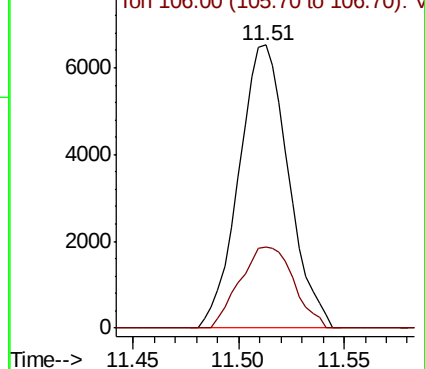
APPROVED

MMDadoda

10/16/2019 12:56:50 AM



Abundance Ion 91.00 (90.70 to 91.70): VN058747.D (-2936) (-)



#68

m/p-Xylenes

Concen: 0.930 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN058747.D

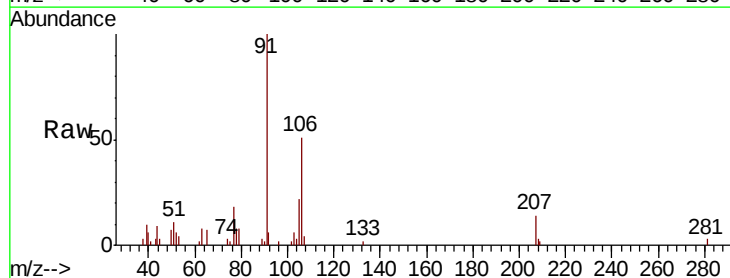
Acq: 14 Oct 2019 14:20

Tgt Ion: 106 Resp: 7350

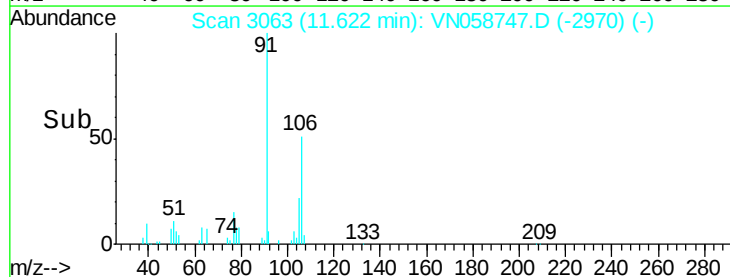
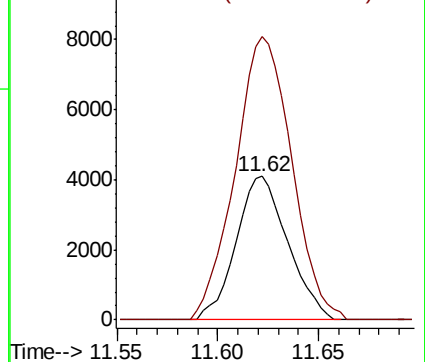
Ion Ratio Lower Upper

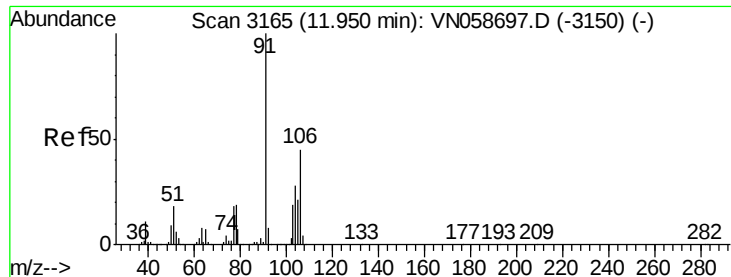
106 100

91 215.2 165.7 248.5



Abundance Ion 106.00 (105.70 to 106.70): VN058747.D (-2970) (-)





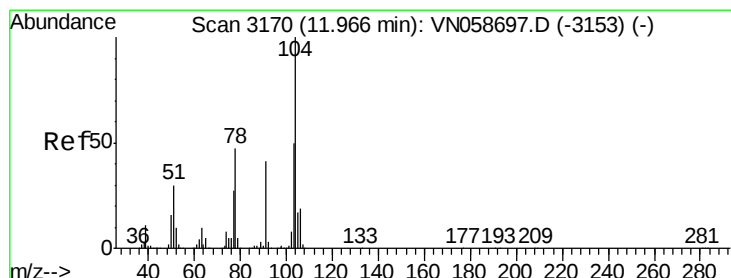
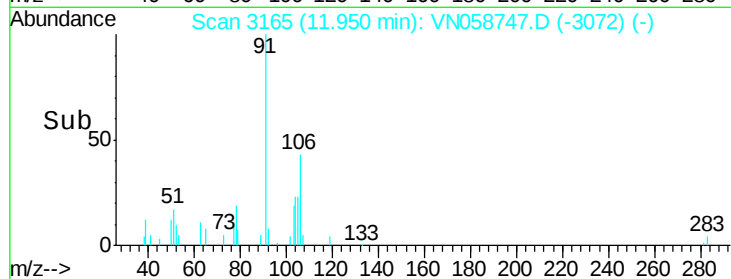
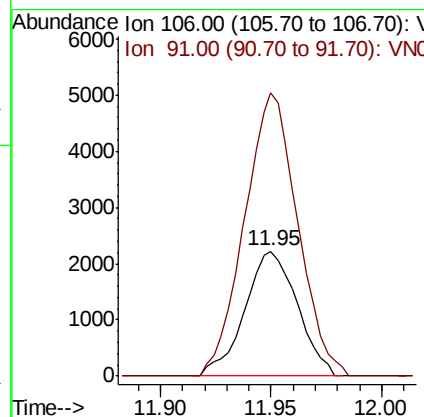
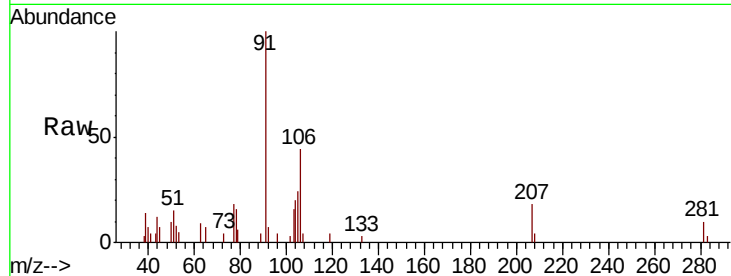
#69
o-Xylene
Concen: 0.479 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
106	100		
91	229.7	110.9	332.9

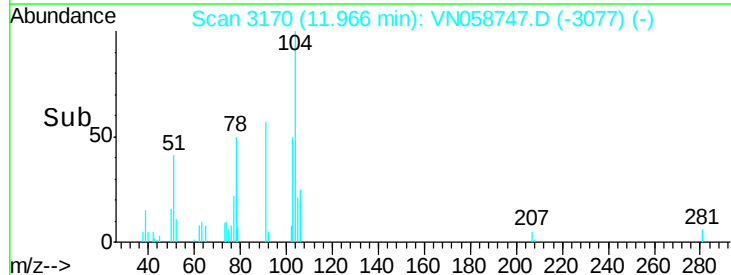
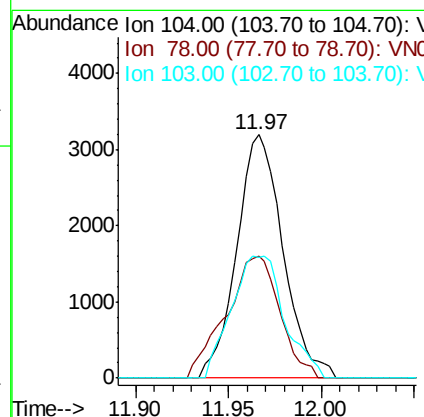
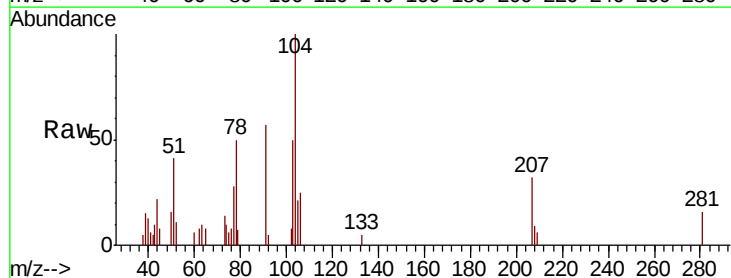
Manual Integrations
APPROVED

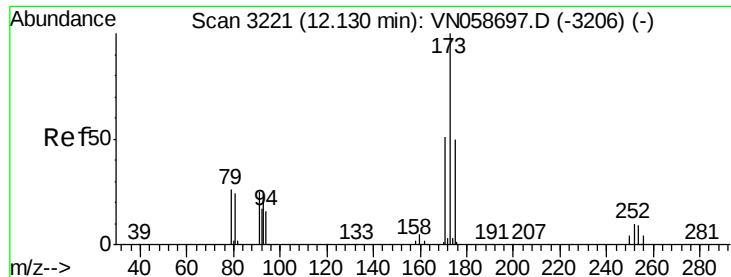
MMDadoda
10/16/2019 12:56:50 AM



#70
Styrene
Concen: 0.443 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
104	100		
78	58.0	42.2	63.2
103	57.2	43.7	65.5





#71

Bromoform

Concen: 0.416 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

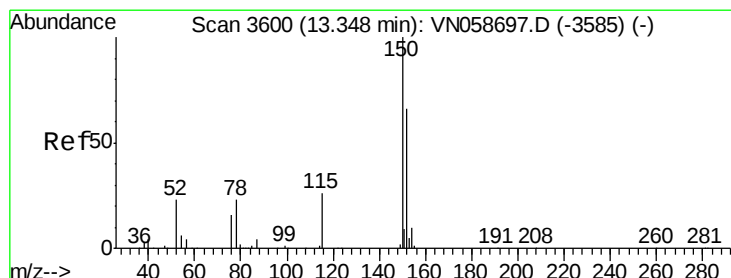
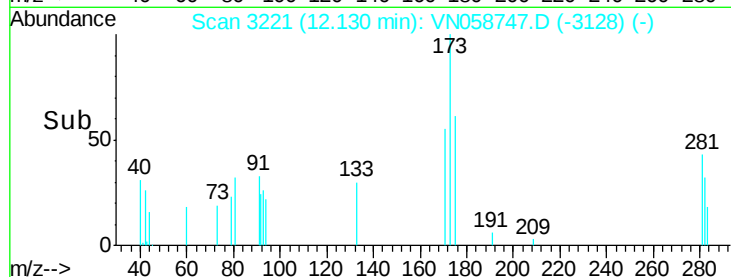
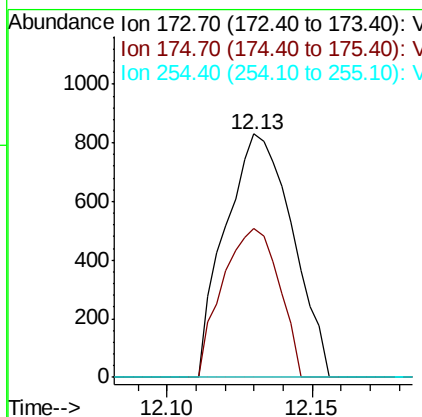
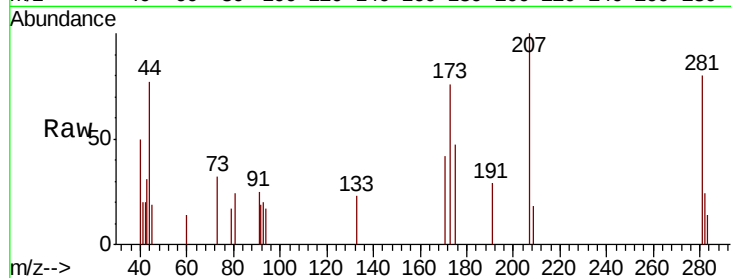
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.7	24.6	73.8
254	0.0	0.1	0.1#

Manual Integrations
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MMDadoda
10/16/2019 12:56:50 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

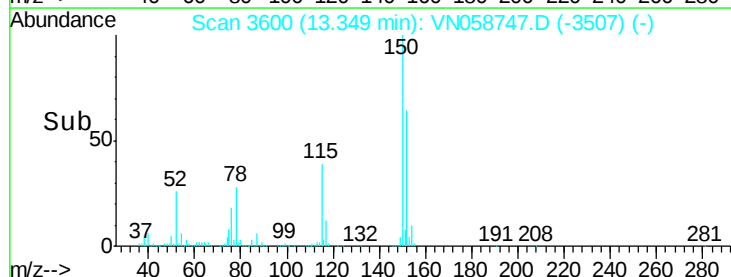
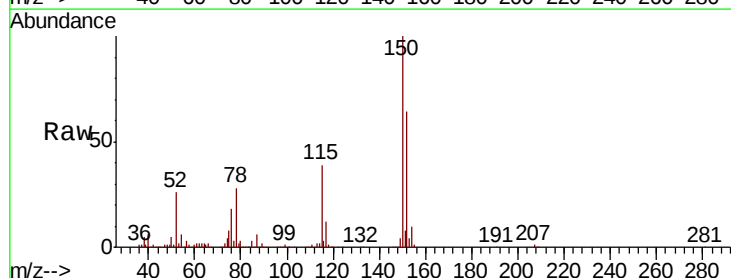
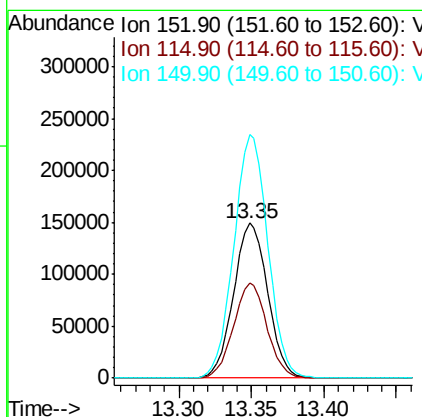
RT: 13.35 min Scan# 3600

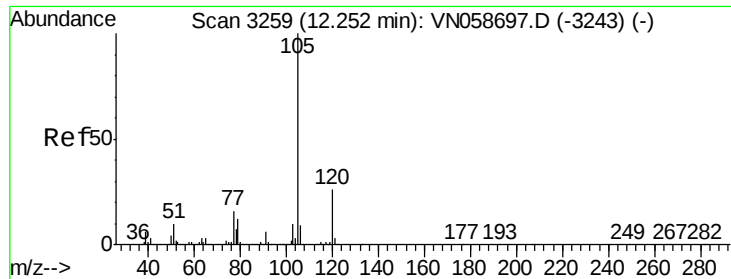
Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.3	30.4	91.2
150	156.1	0.0	345.4





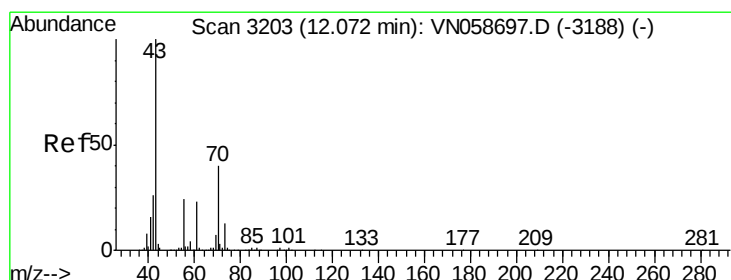
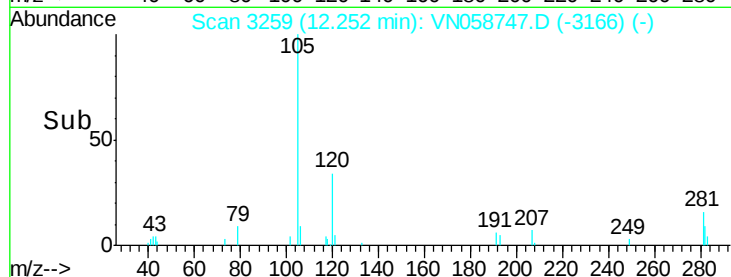
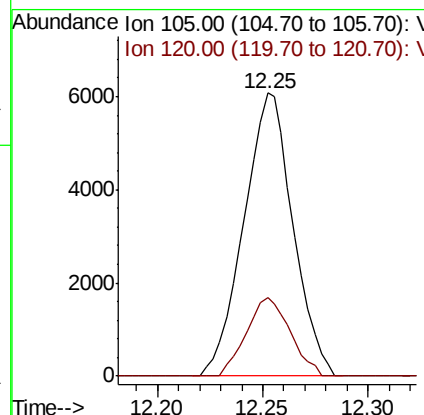
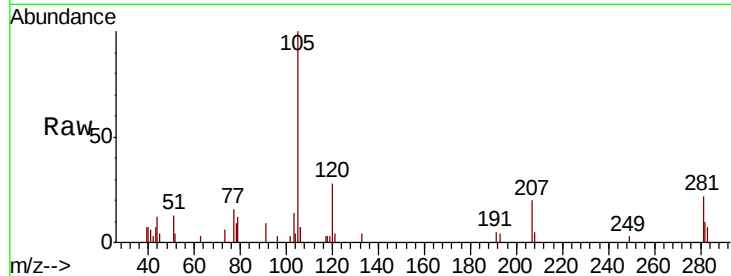
#73
Isopropylbenzene
Concen: 0.555 ug/l
RT: 12.25 min Scan# 3259
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
105	100		
120	24.7	13.1	39.1

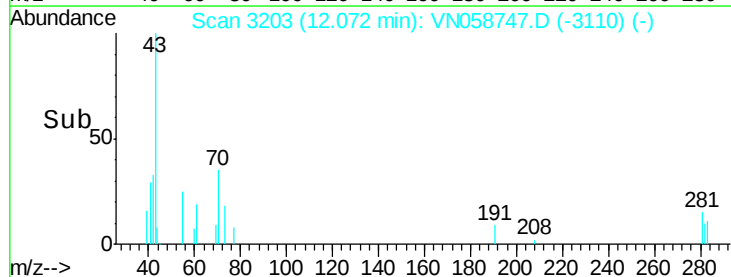
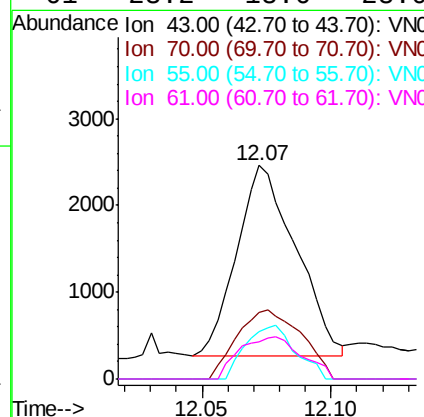
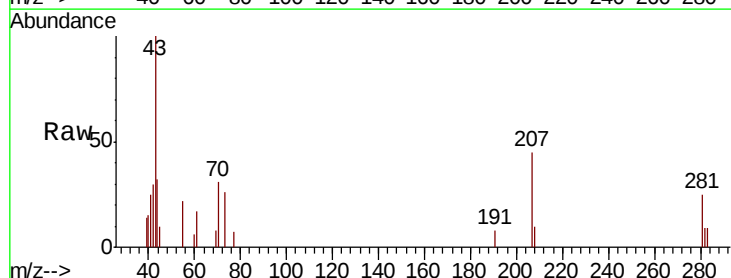
Manual Integrations
APPROVED

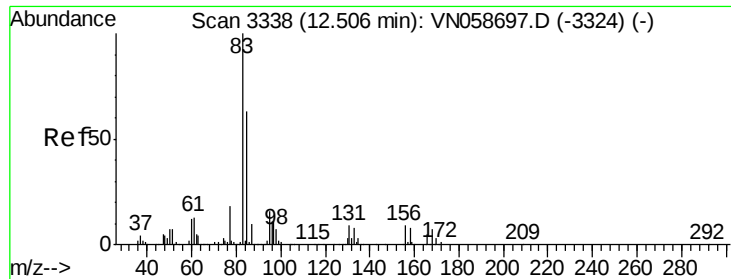
MMDadoda
10/16/2019 12:56:50 AM



#74
N-ethyl acetate
Concen: 0.443 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
43	100		
70	39.3	32.2	48.4
55	23.5	19.6	29.4
61	23.2	18.6	28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 0.563 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

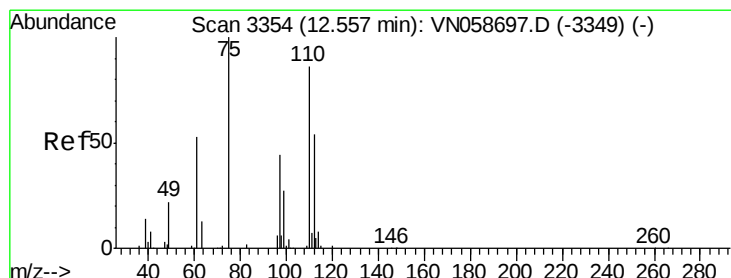
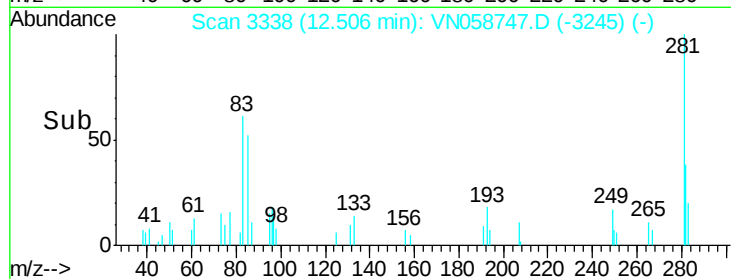
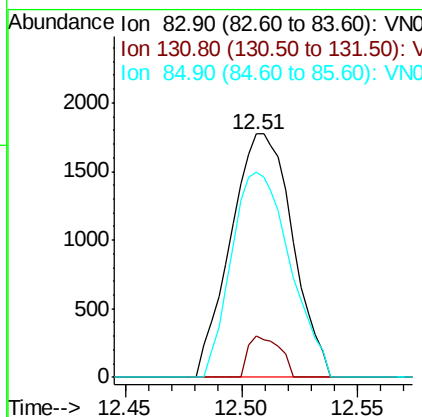
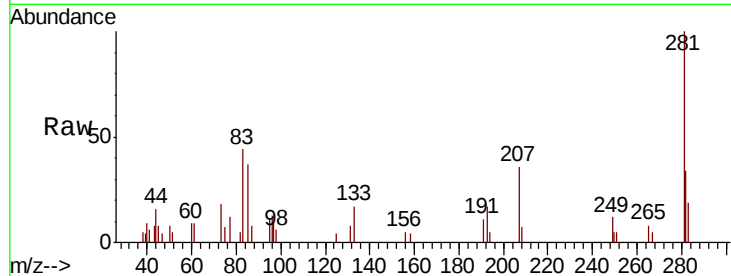
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	83	Resp:	3277
Ion Ratio	Lower	Upper	
83	100		
131	8.7	4.8	14.4
85	80.1	31.9	95.5

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#76

1,2,3-Trichloropropane

Concen: 0.807 ug/l m

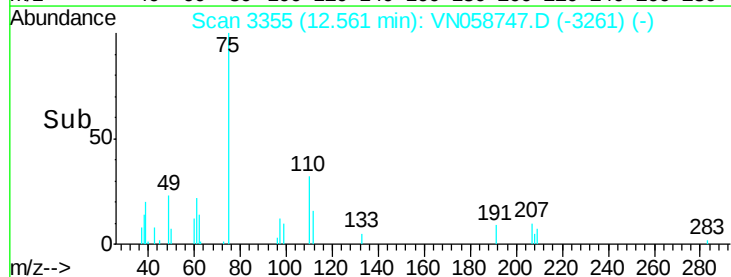
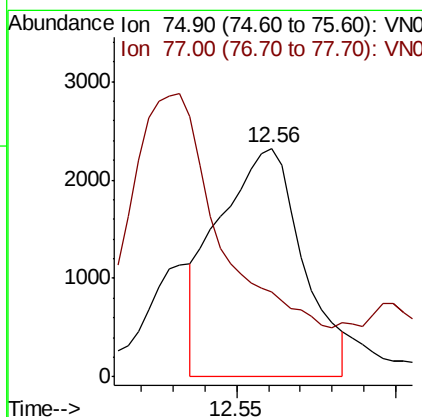
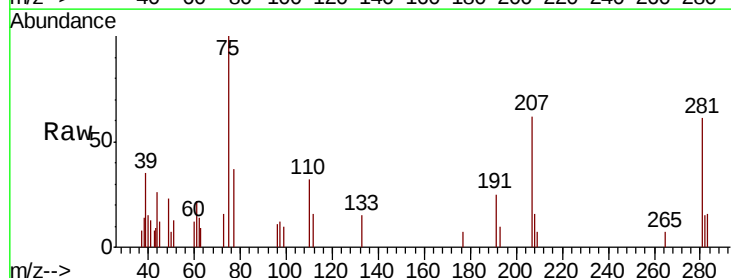
RT: 12.56 min Scan# 3355

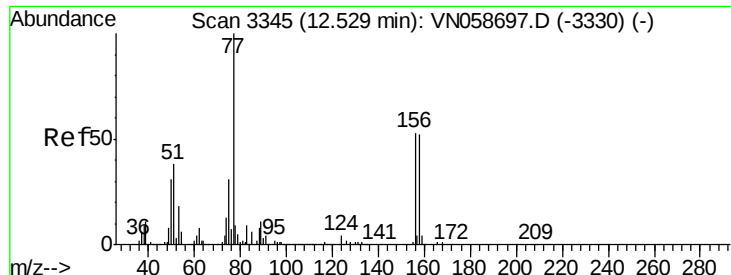
Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Tgt Ion:	75	Resp:	4319
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 0.637 ug/l

RT: 12.53 min Scan# 3346

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:156 Resp: 2738

Ion Ratio Lower Upper

156 100

77 251.7 115.8 347.3

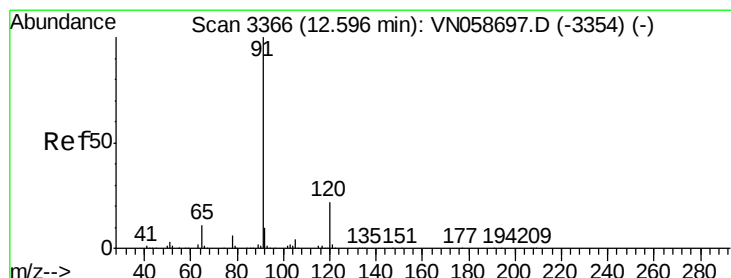
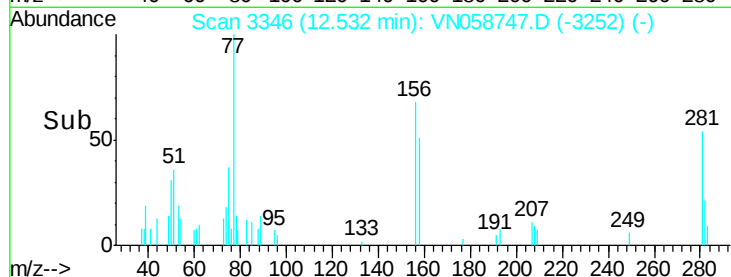
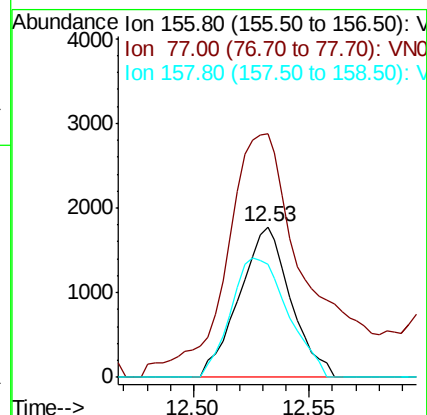
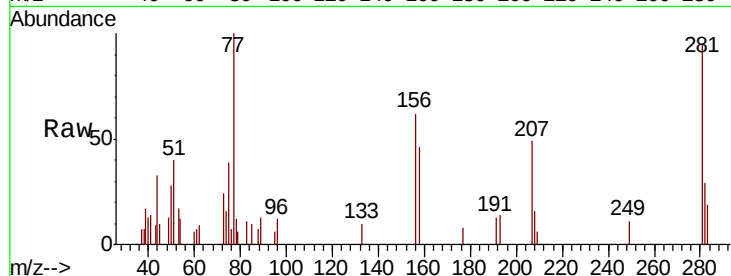
158 87.7 48.9 146.6

Manual Integrations

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#78

n-propylbenzene

Concen: 0.610 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058747.D

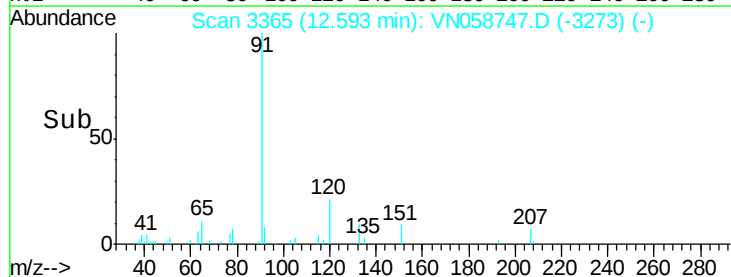
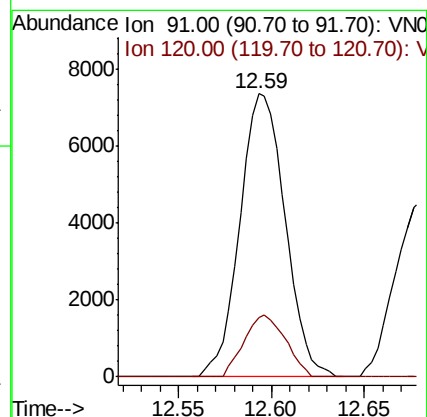
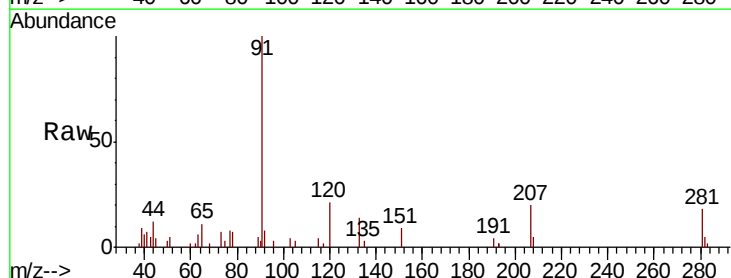
Acq: 14 Oct 2019 14:20

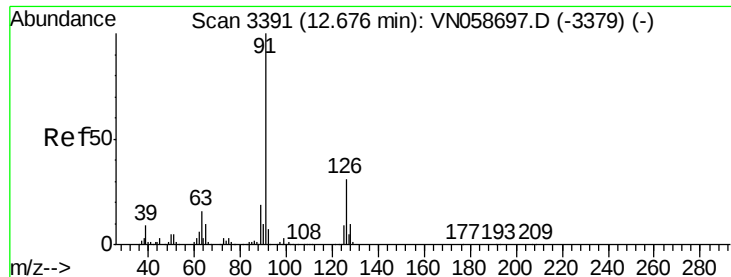
Tgt Ion: 91 Resp: 12553

Ion Ratio Lower Upper

91 100

120 19.9 11.1 33.3





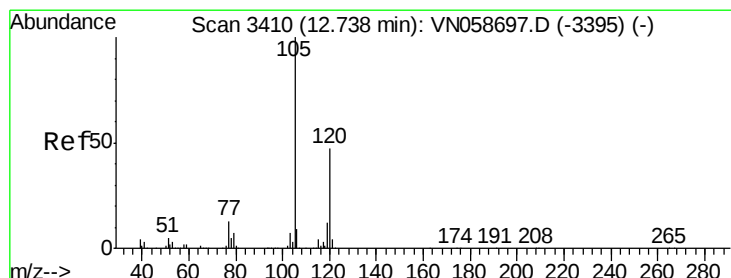
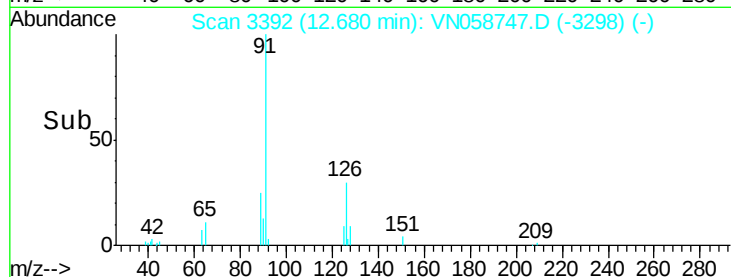
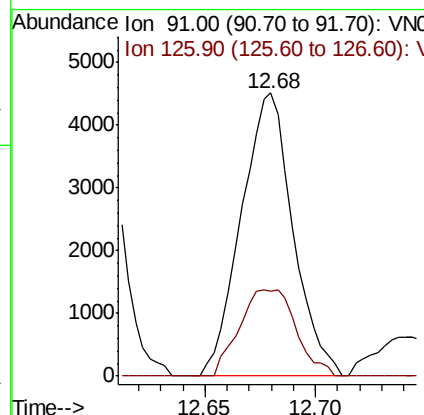
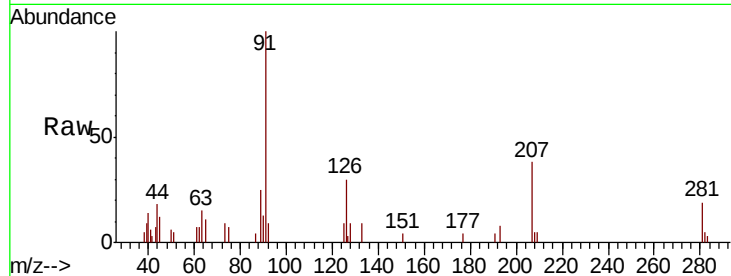
#79
 2-Chlorotoluene
 Concen: 0.576 ug/l
 RT: 12.68 min Scan# 3392
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.2	48.5

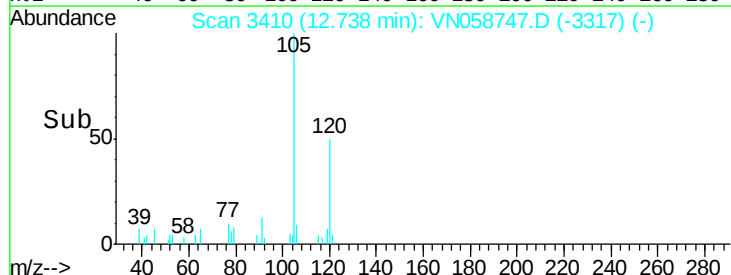
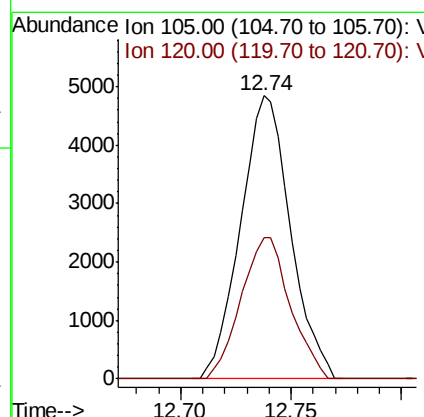
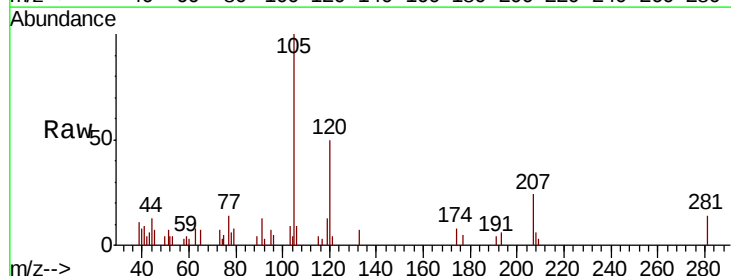
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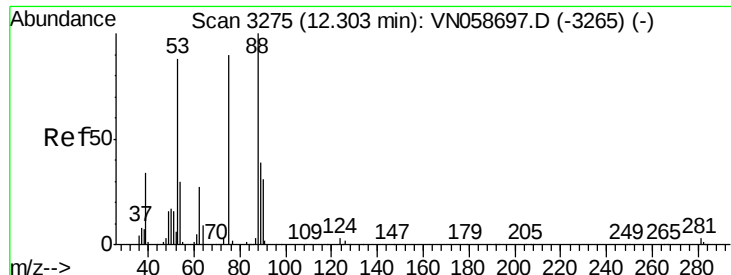
MMDadoda
 10/16/2019 12:56:50 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 0.503 ug/l
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.1	23.4	70.2





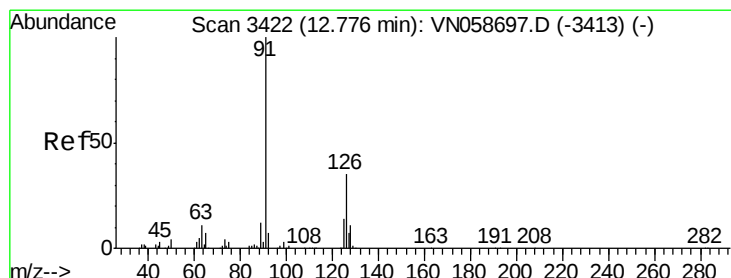
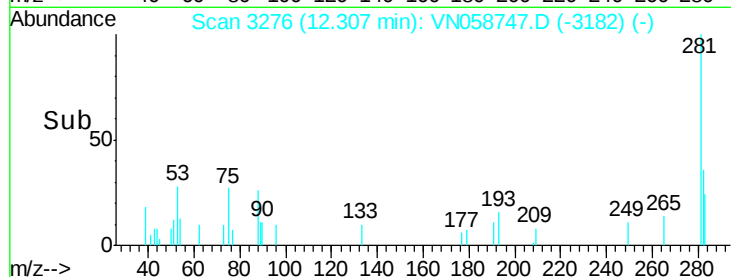
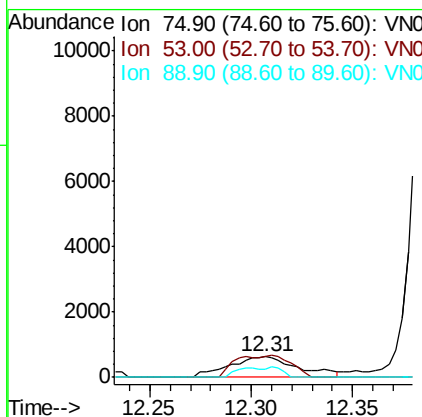
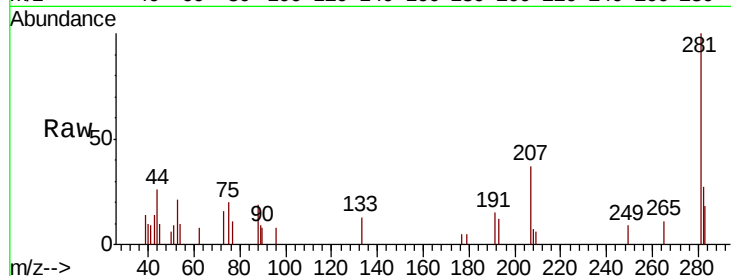
#81
trans-1,4-Dichloro-2-butene
Concen: 0.752 ug/l m
RT: 12.31 min Scan# 3276
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	78.4	117.6#
89	6.9	34.9	52.3#

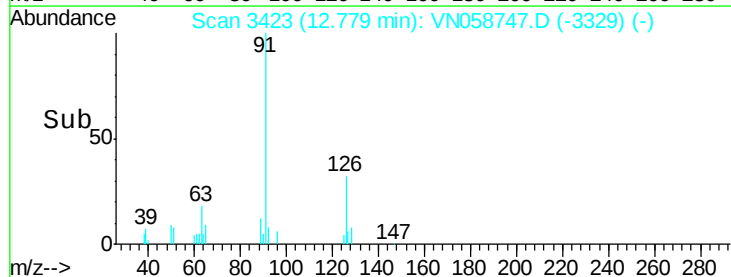
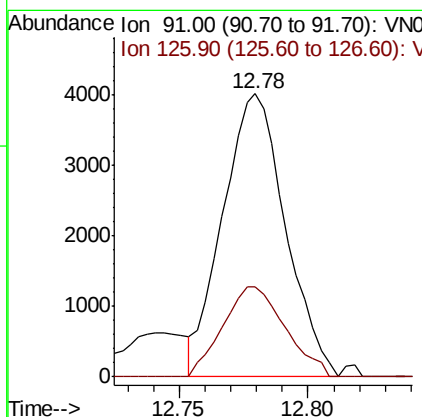
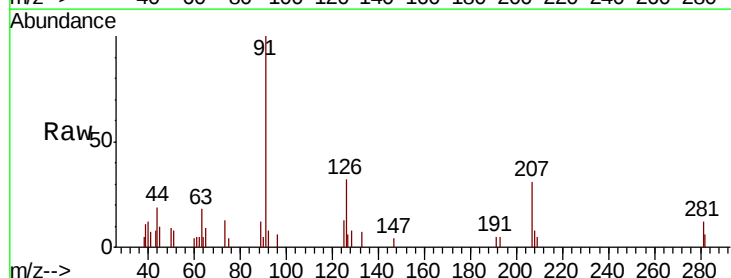
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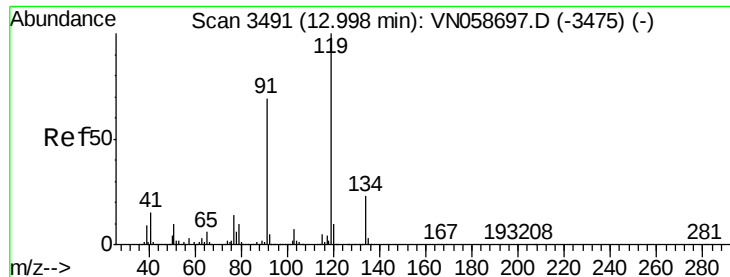
MMDadoda
10/16/2019 12:56:50 AM



#82
4-Chlorotoluene
Concen: 0.519 ug/l
RT: 12.78 min Scan# 3423
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.7	15.9	47.6





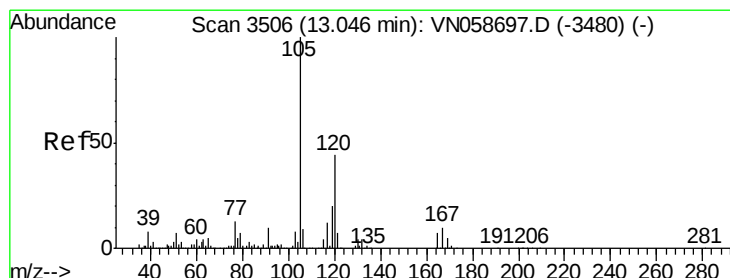
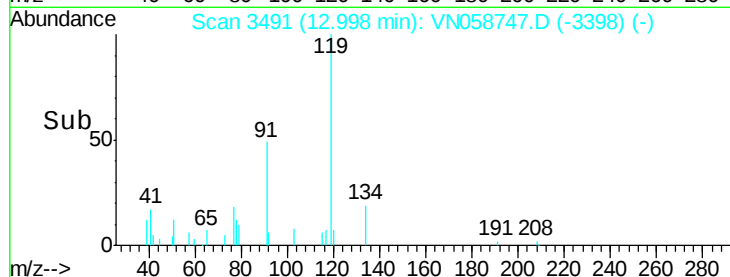
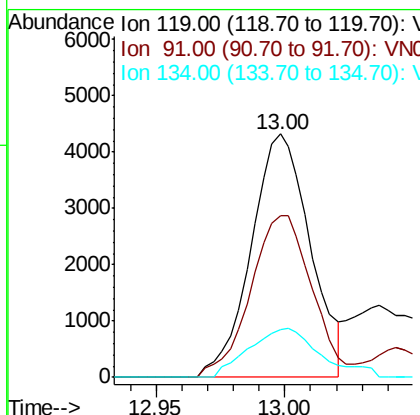
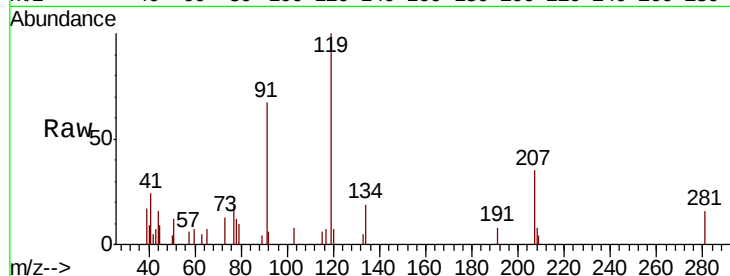
#83
tert-Butylbenzene
Concen: 0.535 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	69.2	33.8	101.3
134	24.2	12.6	37.6

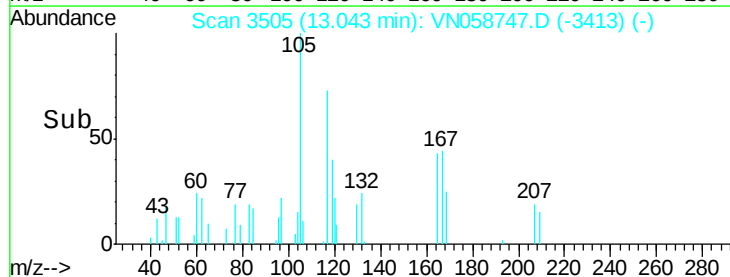
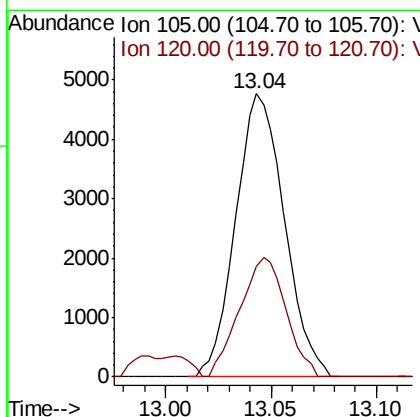
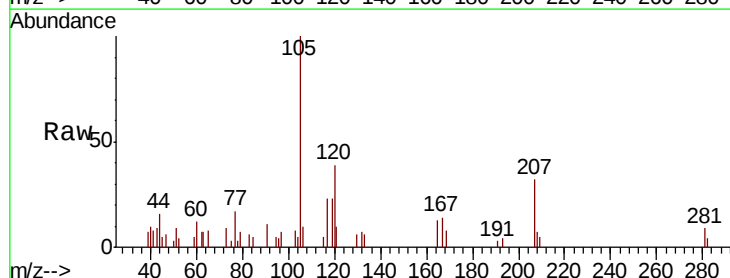
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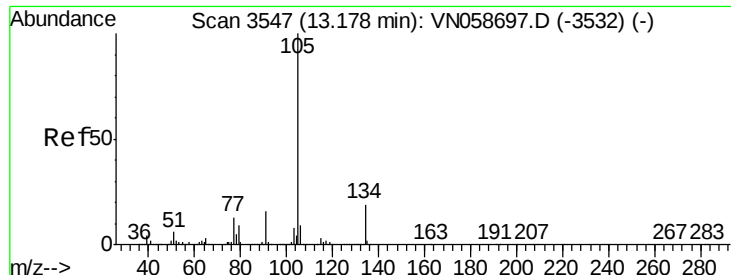
MMDadoda
10/16/2019 12:56:50 AM



#84
1,2,4-Trimethylbenzene
Concen: 0.512 ug/l
RT: 13.04 min Scan# 3506
Delta R.T. -0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	40.1	21.9	65.7





#85

sec-Butylbenzene

Concen: 0.515 ug/l

RT: 13.18 min Scan# 3548

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:105 Resp: 8767

Ion Ratio Lower Upper

105 100

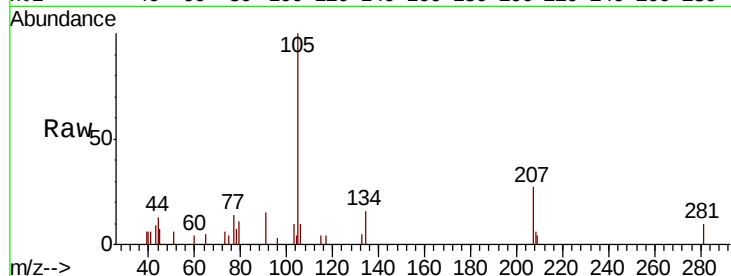
134 19.3 9.7 29.1

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.18

6000

5000

4000

3000

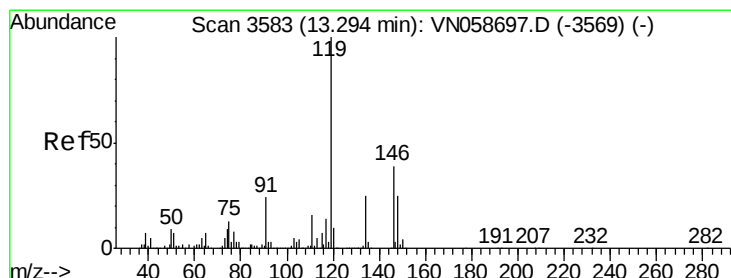
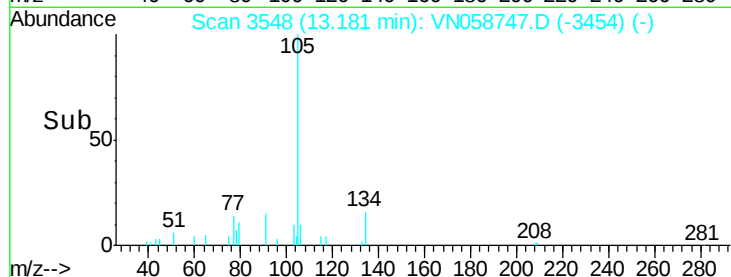
2000

1000

0

13.15 13.20

Time-->



#86

p-Isopropyltoluene

Concen: 0.450 ug/l

RT: 13.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

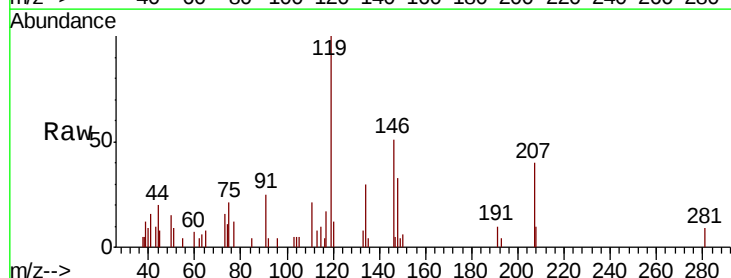
Tgt Ion:119 Resp: 6971

Ion Ratio Lower Upper

119 100

134 27.1 12.7 38.1

91 26.9 11.9 35.5



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.30

6000

5000

4000

3000

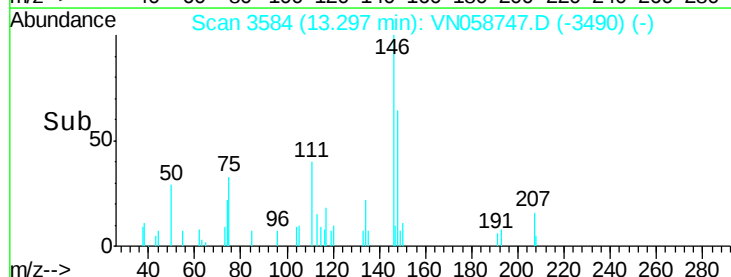
2000

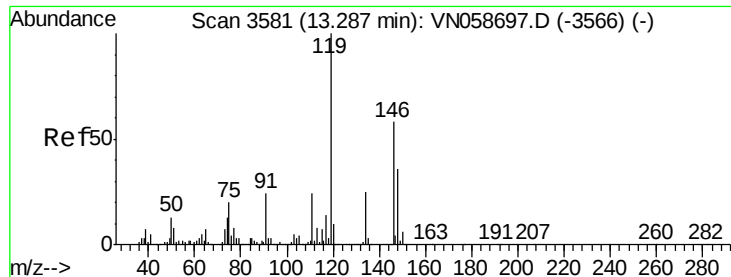
1000

0

13.25 13.30 13.35

Time-->





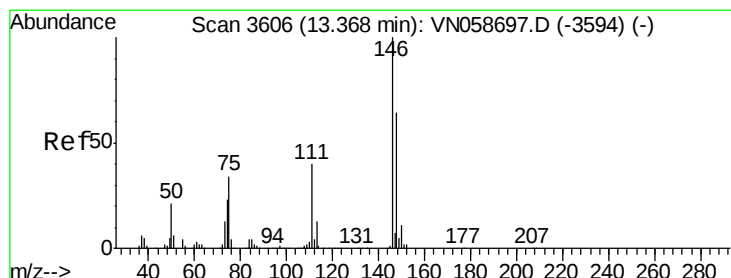
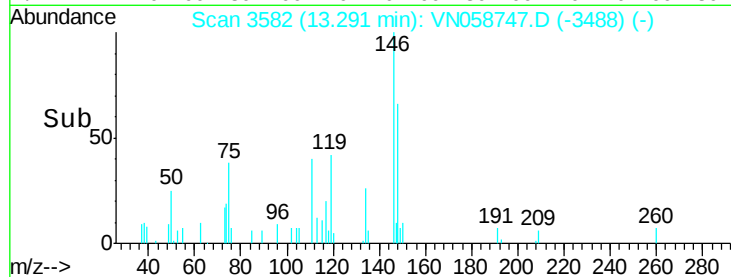
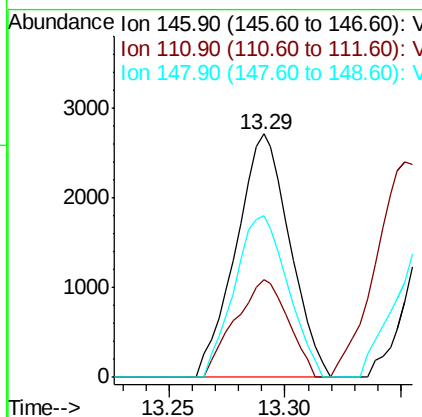
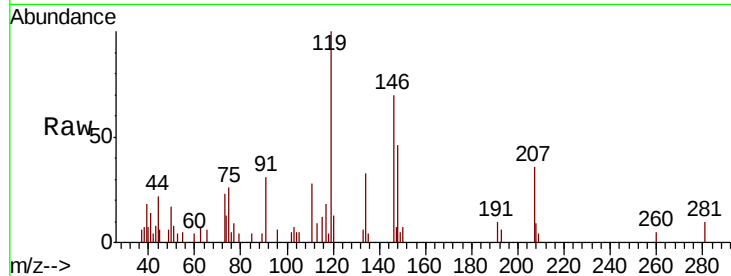
#87
 1,3-Dichlorobenzene
 Concen: 0.551 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.5	61.6
148	66.0	31.3	93.9

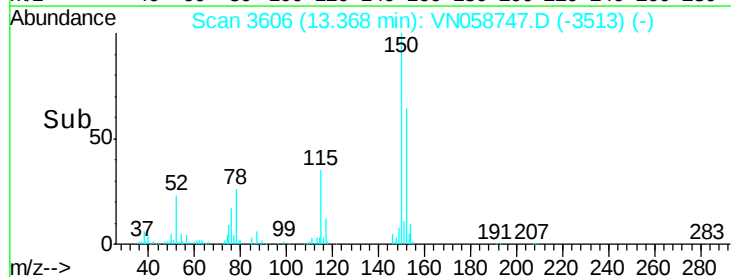
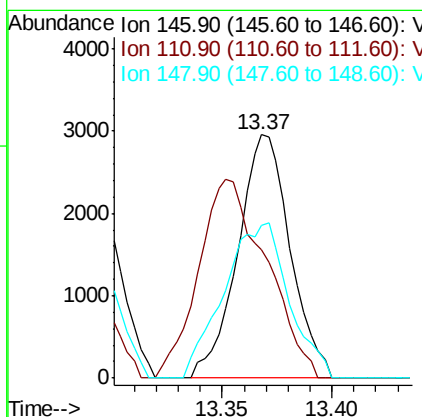
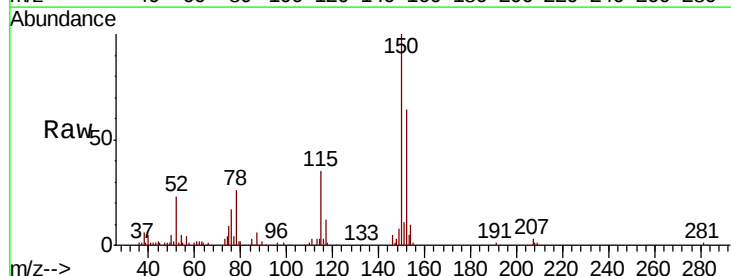
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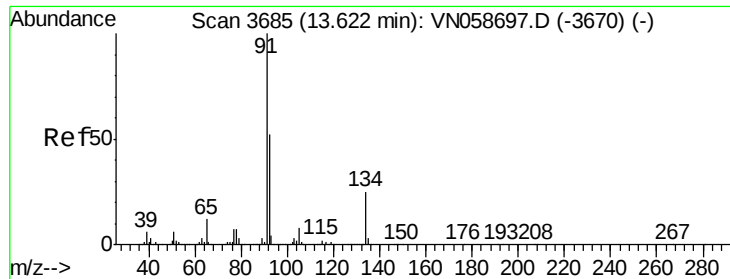
MMDadoda
 10/16/2019 12:56:50 AM



#88
 1,4-Dichlorobenzene
 Concen: 0.607 ug/l m
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.4	20.1	60.2
148	58.9	31.9	95.7





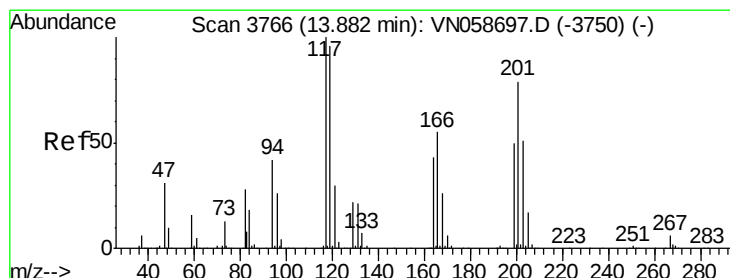
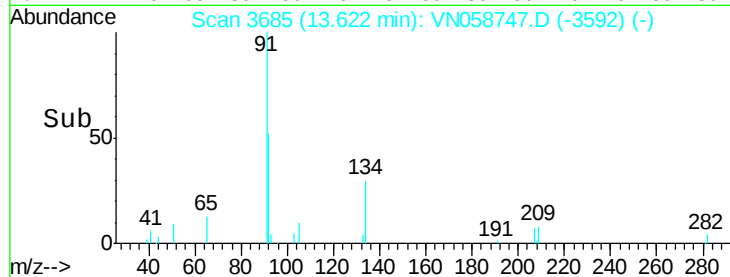
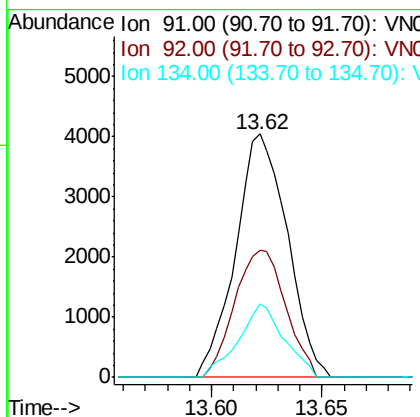
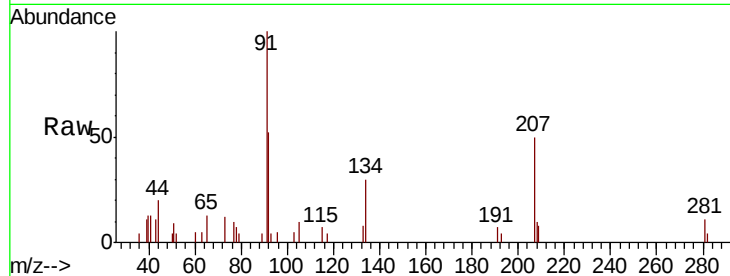
#89
n-Butylbenzene
Concen: 0.461 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	51.3	26.0	78.0	
134	26.6	12.2	36.6	

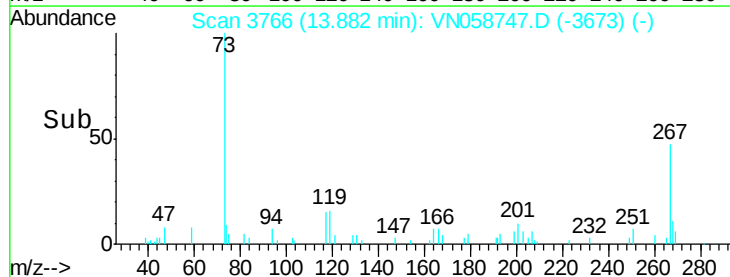
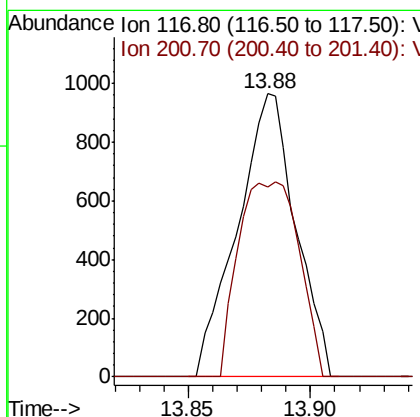
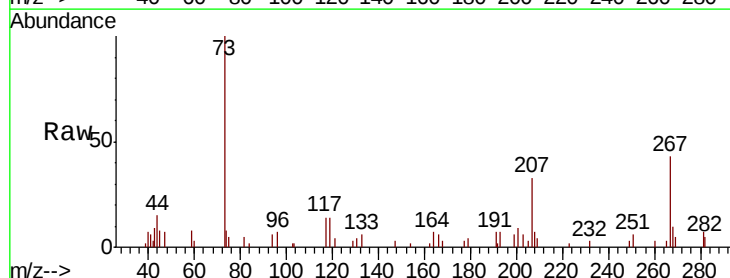
Manual Integrations
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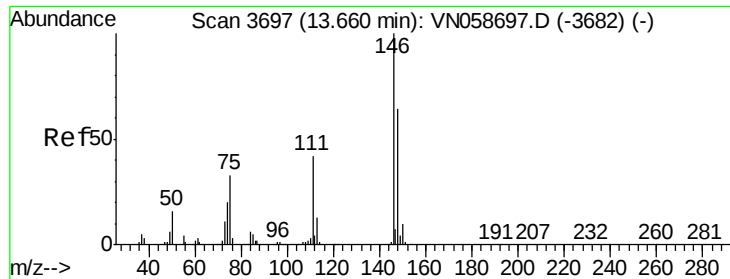
MMDadoda
10/16/2019 12:56:50 AM



#90
Hexachloroethane
Concen: 0.576 ug/l
RT: 13.88 min Scan# 3766
Delta R.T. 0.00 min
Lab File: VN058747.D
Acq: 14 Oct 2019 14:20

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
201	72.1	39.6	118.7	





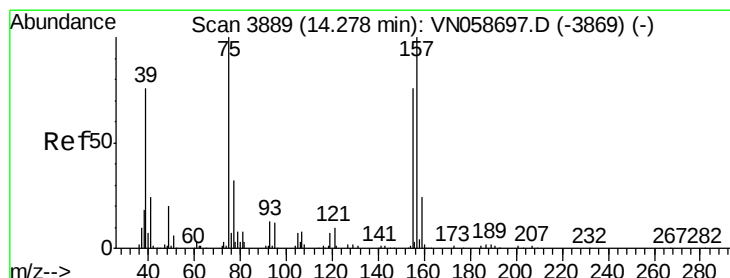
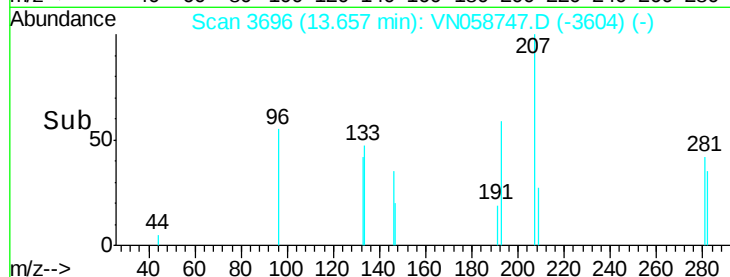
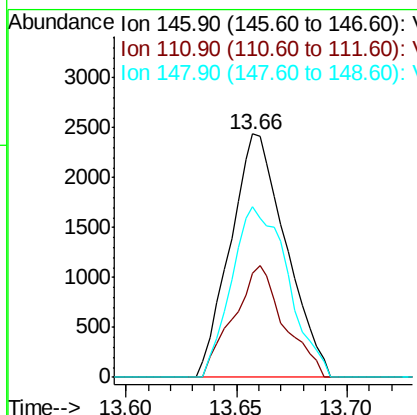
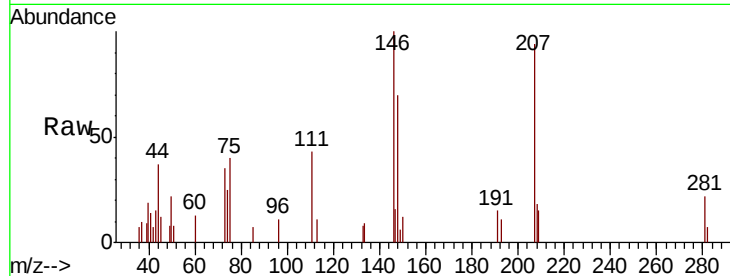
#91
 1,2-Dichlorobenzene
 Concen: 0.551 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. -0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.1	63.4
148	71.5	31.8	95.3

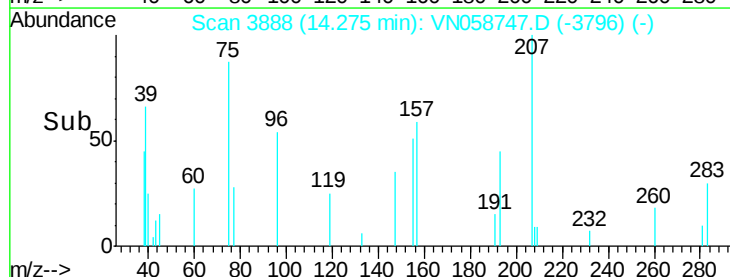
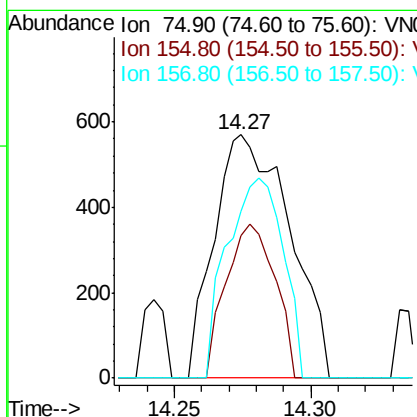
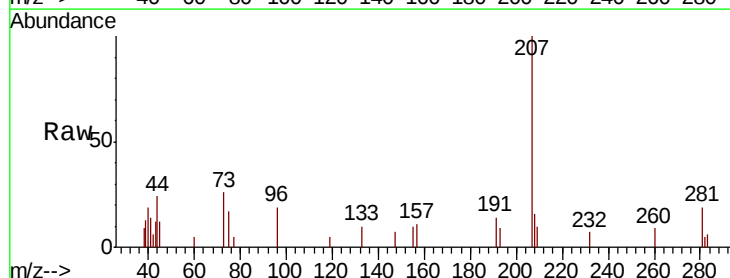
Manual Integrations
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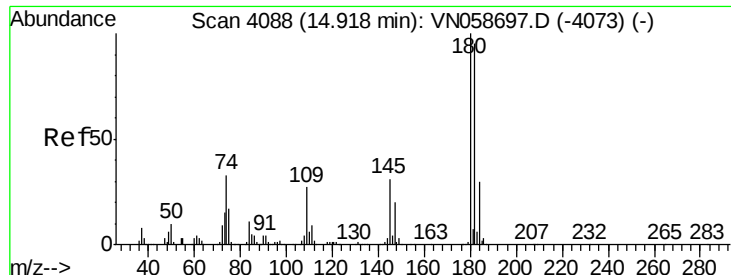
MMDadoda
 10/16/2019 12:56:50 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.805 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. -0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	41.1	37.9	113.6
157	60.9	49.4	148.2





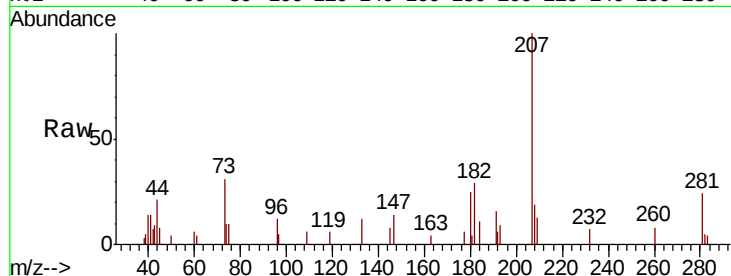
#93
 1,2,4-Trichlorobenzene
 Concen: 0.450 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. -0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

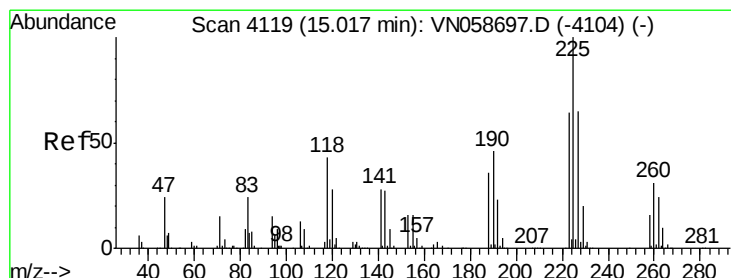
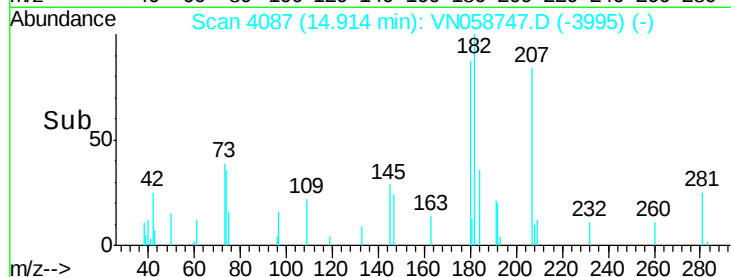
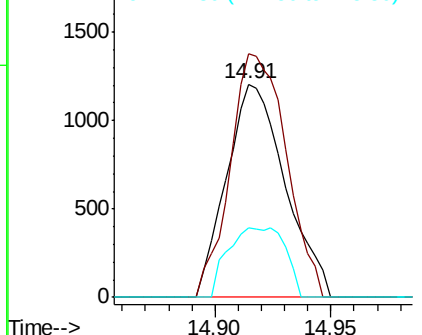
Tot Ion	Ratio	Lower	Upper
180	100		
182	108.9	47.4	142.2
145	31.7	15.4	46.2

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 10/16/2019 12:56:50 AM

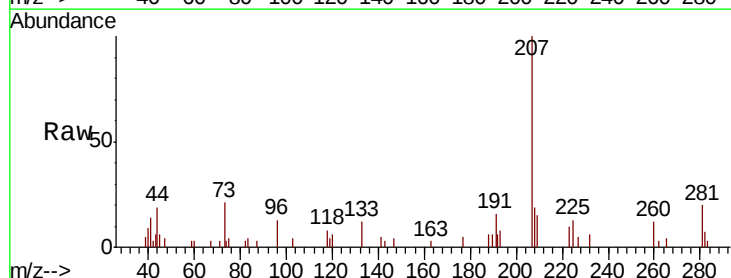


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

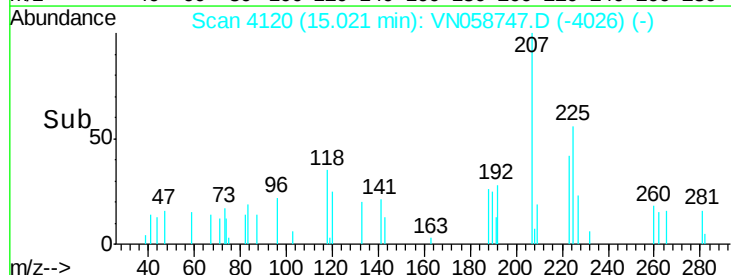
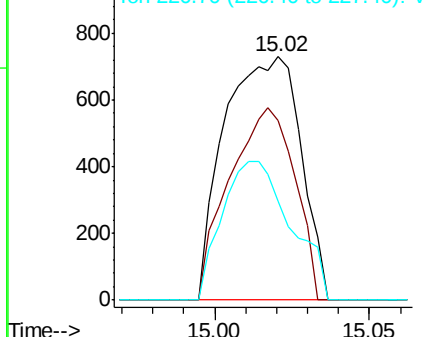


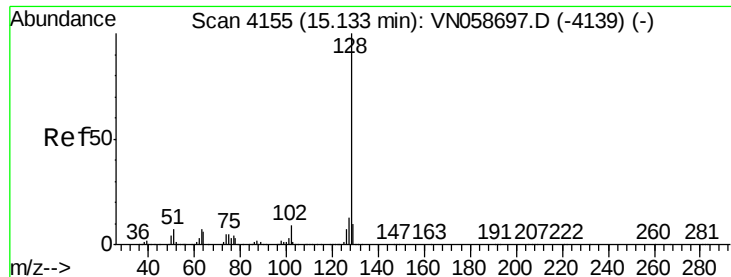
#94
 Hexachlorobutadiene
 Concen: 0.505 ug/l
 RT: 15.02 min Scan# 4120
 Delta R.T. 0.00 min
 Lab File: VN058747.D
 Acq: 14 Oct 2019 14:20

Tgt Ion	Ratio	Lower	Upper
225	100		
223	67.8	32.3	96.8
227	51.2	32.4	97.0



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.418 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Instrument :

MSVOA_N

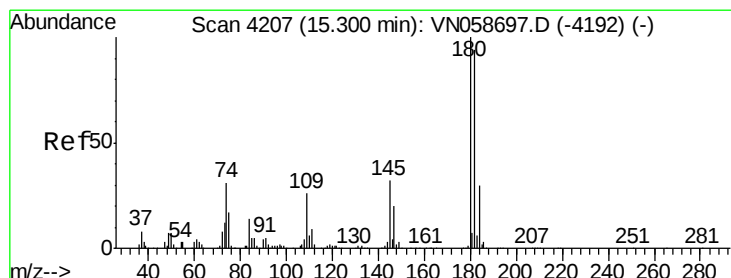
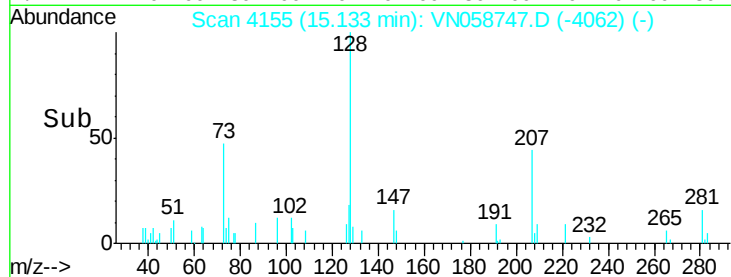
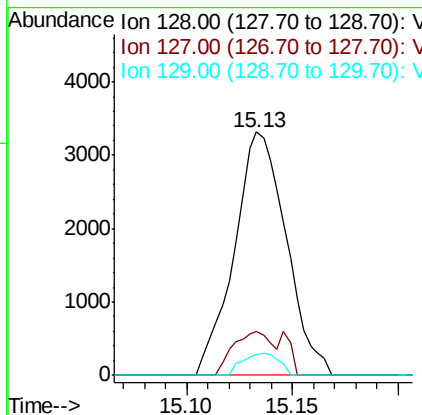
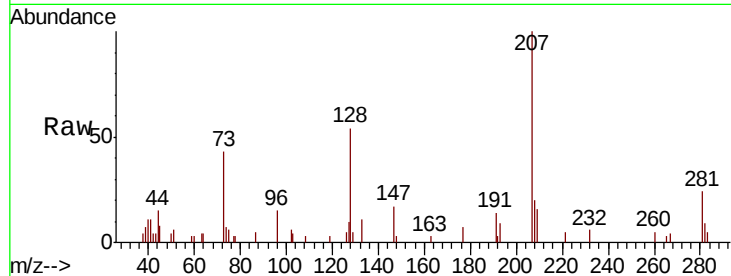
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	128	Resp:	5666
Ion Ratio	Lower	Upper	
128	100		
127	17.1	10.2	15.4#
129	6.3	8.5	12.7#

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#96

1,2,3-Trichlorobenzene

Concen: 0.451 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058747.D

Acq: 14 Oct 2019 14:20

Tgt Ion:	180	Resp:	2075
Ion Ratio	Lower	Upper	
180	100		
182	100.7	47.3	142.0
145	38.7	16.2	48.6

